

Subject Index to Volume 22

- Ab initio**
Tetrabromocuprates, Two-dimensional Heisenberg antiferromagnet, Magnetic susceptibility, 2235
- Ab initio calculation**
Keggin anion, Electron transfer, Coulombic repulsion, Magnetic coupling, 2331
- Ab initio calculations**
CASPT2, Difference dedicated CI, Magnetic properties, Oxalato-bridged complexes, Hetero-bimetallic complexes, 2409
- Ab initio method**
Bis(9-(10-phenyl)anthryl)carbene, Polycarbene, Effective exchange integral, AO-fitting, AO-approach, 2067
- Ab initio MO method**
Molecular magnetism, Organic superconductor, Effective exchange integral, Density functional method, BEDT-TTF, BETS, TMTTF, TMTSF, 2051
- Ab initio MO calculation**
Hybrid-DFT, Organomagnetic conductors, Electronic structure, Effective exchange integral, 2039
- Ab-initio methods**
Cyclic phosphazines, Electron propagator methods, Electronic structures, Ionization energies, Vibrational frequencies, 473
- Abpt**
Trpn, Monoclinic, Crystal, Octahedral geometry, Intramolecular hydrogen bonding, 3181
- Absorption spectra**
Imidazole-4-acetic acid, Cobalt(II) complexes, Manganese(II) complexes, X-ray structure, EPR spectra, 3123
- a.c. and d.c. magnetic susceptibility**
Single-molecule magnet, Single crystal X-ray analysis, Mn₁₂ complexes, 2-Thiophenecarboxylic acid, PPh₄ salt, 1795
- π-Acceptor**
Encapsulating ligand, Iron(II), Low-spin, Thiaether, 45
- a.c. susceptibility**
Molecular magnetism, Metamagnetism, Canted antiferromagnetism, High pressure, 2249
- Ac susceptibility**
Molecular magnetism, Ferromagnetism, Dipolar interactions, High pressure, 3339
- Acetamide**
Mannich, Copper(II) complexes, α-Amino acids, Formaldehyde, 521
- Acidity constants**
Charge repulsion, Phosphonate complexes, Pyrimidine nucleotide analogue, Stability constants, Stacking interactions, Ternary complexes, 1067
- Acetal ligands**
Tricarbonylrhenium(I) halide complexes, Diastereoisomers, ¹H NMR, DFT calculations, 3371
- Acylferrocene**
Trimethylsilyl cyanide, Cyanohydrin trimethylsilyl ether, 1523
- Adduct**
Kinetics, Transmetalation, Heteropolymetallic, Target, Formation, 2917
- β-Alanine**
Dipeptides, Tripeptides, Nickel(II), Palladium(II), Stability constants, 2607
- Alkoxide**
Tungsten alkylidyne, Molybdenum alkylidyne, Electronic structure, Frontier molecular orbitals, Thiolate, 145
- Alkoxide**
Antiferromagnetic interaction, Late transition metal, X-ray, Molecular structure, 2581
- Alkoxide complexes**
Phenolate ligands, Tungsten, Crystal structures, 2755
- Alkoxides**
Lanthanum, X-ray structures, Triflate, Grafting, 127
- Alkoxo-complexes**
Rhenium(V), Phosphinite ligands, Oxo-complexes, Crystal structures, 1711
- Alkoxy carbonylation**
Dibenzotetraaza[14]annulenes, Macrocyclic Schiff bases, Stacking, CH···O hydrogen bonds, 3299
- Alkynes**
Retro-chloropalladation reaction, Monomeric compounds, Propargyl amines, 1665
- Aluminium**
Thiolate, Hydride, 2655
- Aluminium(III) atoms**
N-phenylsalicylideneiminato, Isopropoxo, Molecular structures, 2943
- Amidato**
Synthesis, Dirhenium, Pseudo-halides, Crystal structures, Di-cation, 1281
- Amide**
Chloride, Gallium, Ligand exchange, Titanium, 9
- Amide**
Lanthanides, Dications, Divalent, Cyclopentadienyl, Protonolysis, 119
- Amide ligands**
Lithium, Sodium, Potassium, 12-Crown-4, Crystal structures, 3507
- Amides**
Lanthanides, Compound, Catalysis, Polymerization, Polymer, 1019
- Aminium cationic radical**
Aromatic polyamine, Polycondensation, Non-Kekulé molecule, Palladium-catalyzed amination, 1945
- α-Amino acids**
Mannich, Copper(II) complexes, Formaldehyde, Acetamide, 521
- Amino acid**
Nitrosation, Dinitrogen trioxide, Spectrophotometry, 1059
- 2-Aminopyridine**
Electrochemical synthesis, Methanol, Schiff base, 1335
- Ammonium hexafluorophosphate**
Palladium(II) cyclometallated complexes, Crystal and molecular structures, Chelating, Phosphines, 241
- AMnFe(C₂S₂O₂)₃**
Magnetic and structural characterisation, Layered materials, 2317
- Ancillary ligands**
Cobalt acetate, Oxo-centred trimers, X-ray crystal structures, 947
- Anion**
Dendrimer, Electrochemistry, Ferrocene, Receptor, Supramolecular, 763
- Anion**
Receptor, Emission intensity, Complexes, Ruthenium, 775
- Anion binding**
Electrochemical sensing, Urea, 649
- Anion binding**
Pyrrole, Ferrocene, Self-assembly, Electrochemical sensor, 699
- Anion binding**
Self-assembly, Bridging, Ligand, Tetrahedral cage, 781
- Anion template**
Metalla-macrocycles, Templating agents, Palladium and nickel complexes, Triphenylphosphine, Hydrogen bonding, 2991
- Annealing**
Metal sulfide, Molecular precursor, Diethyl ether, 1255

- Anomalous paramagnetic centers
Fullerene, Molecular complexes, Magnetic properties, 2009
- Anthracene
Conjugated polymer, Polyradical, Phenoxyl, Poly(aryleneethynylene), High-spin polymer, 1845
- Anti-*Candida* activity
Manganese(II) complexes, 2,2-Dimethylpentanedioic acid, 3,3-Dimethylpentanedioic acid, 2,2'-Bipyridine, 1,10-Phenanthroline, Crystal structure, 3187
- Anti-fungal
(Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropenonitrile, Metal complexes, X-ray structures, Silver(I), *Candida albicans*, 1595
- Antibacterial activity
Deamination of amino acids, Diorganotin(IV) complexes, Pyridoxal 5'-phosphate, Pyridoxal-pyridoamine Schiff base, X-ray structures, 53
- Antiferromagnetic
Spin ladder, Copper(II), Quinoxaline, 2325
- Antiferromagnetic coupling
Magnetic susceptibility, Square-pyramidal environment, 2515
- Antiferromagnetic interaction
Centrosymmetric dimer, Singlet-triplet, Curie-Weiss law, 2311
- Antiferromagnetic interaction
Alkoxide, Late transition metal, X-ray, Molecular structure, 2581
- Antiferromagnetic interactions
Dipyridinated manganese(II) phthalocyanine, Crystal structures, Magnetic properties, Oxidation, UV-Vis spectroscopy, 2689
- Antiferromagnetic order
Verdazyl radical, Spin-Peierls transition, Heat capacity, Magnetism, Doping effect, High-field magnetization, 2091
- Antimony
2-Thienyl derivatives, Arsenic, X-ray structures, [PdCl₂{(C₄H₃S)₃As}]₂, 549
- Antimony
Bromine, Isobutyl group, Ring-ring equilibrium, X-ray diffraction, NMR spectra, 1719
- Antimony(V) compounds
Imidodiphosphinato ligands, Crystal structure, 3395
- Antiprotooans
Pesticides, 3,5-dimethyl-tetrahydro-2H-1,3,5-thiadiazine-2-thione, 1689
- Antisymmetric double exchange
Mixed-valence clusters, Zero-field splitting, 2253
- Antitumor compounds
Palladium, Platinum, Chirality, Bidentate nitrogen ligands, Crystal structures, 1529
- AO-approach
Bis(9-(10-phenyl)anthryl)carbene, Polycarbene, Ab initio method, Effective exchange integral, AO-fitting, 2067
- AO-fitting
Bis(9-(10-phenyl)anthryl)carbene, Polycarbene, Ab initio method, Effective exchange integral, AO-approach, 2067
- (Arene)ruthenium
Multi-functional ligand, Trithiolato, Mercaptophenol, 543
- ArgoGel resins
Clusters, Ruthenium, Sensors, Supported transition metals, Gas sensing, 3
- APCVD
Germanium phosphide, Thin film, 1683
- Aromatic π,π -stacking
Copper(II) complexes, Iminodiacetate, Imidazole, Bipyridine, Crystal structure, 1027
- Aromatic polyamine
Polycondensation, Aminium cationic radical, Non-Kekulé molecule, Palladium-catalyzed amination, 1945
- Arsenic
2-Thienyl derivatives, Antimony, X-ray structures, [PdCl₂{(C₄H₃S)₃As}]₂, 549
- Arsine
Stibine, Synthesis, X-ray structures, π -Stacking, Group 15, 211
- 2-(Arylazo)anilines
Gold(III) complex, Diazoketiminato species, 3109
- Arylazoimidazole
Azopyrimidine, Hg(II) complexes, Crystal structures, 1205
- Arylazoimidazole
Zinc(II) complexes, Crystal structures, Hydrogen bonding, 1D chain, 1213
- Arylazoimidazoles
1,10-Phenanthroline, Ruthenium(II) complexes, Electrochemistry, X-ray structures, EHMO, 849
- Arylazoimidazoles
Cobalt(II) complexes, EO azido bridged complexes, X-ray structures, 2587
- Arylazoimidazoles
Cadmium (II) complexes, Square grid, X-ray structure, 3161
- Aryloxides
Europium, Ytterbium, MVS, Dissolution in ammonia, 1425
- Aryltin compounds
Organotin compounds, FT-IR spectroscopy, NMR spectroscopy, X-ray crystal structure, 3523
- Assembly
Carbenes, Copper, Spin-glass, Magnetic properties, Photolysis, 1877
- Asymmetrical tetradentate Schiff base
Copper(II), X-ray crystallography, Cu(II) catalysed hydrolysis, 617
- Atmospheric pressure chemical vapour deposition
TiS₂, Energy-dispersive X-ray analysis, 1263
- ATP-cisplatin complexes
¹H variation, NMR DOSY, Long range ¹H-¹⁵N HMQC, 611
- Axial coordination cobalt(III) complexes
Salen ligands, Circular dichroism spectra (CD), X-ray structures, 1535
- Azacrown ethers
Macrocycle, Schiff base, Template, Nickel(II) complexes, Mixed-donor macrocycles, 1481
- Azopyrimidine
Arylazoimidazole, Hg(II) complexes, Crystal structures, 1205
- Azopyrimidine chelates
Rhenium azo chelates, Rhenium pyrimidine chelates, Rhenium azopyrimidine chelates, 901
- BEDT-TTF
Molecular magnetism, Organic superconductor, Effective exchange integral, Ab initio MO method, Density functional method, BETS, TMTTF, TMTSF, 2051
- Benzene dithiolate
Weak-ferromagnetism, Ferrimagnet, Molecular based magnet, Transition metal complex, Crown thioether, 1755
- Benzenesulfonic acid
Single-molecule magnet, Mn cluster, 1759
- Benzimidazole
Copper, Peptide, Creatinine, Bioactivity, 3255
- Benzoinoxime
Molybdenum complexes, Dimer, Magnetic moment, Electrochemical properties, 895
- Benzotriazole
Electron transfer, Intervalence charge-transfer, Mixed-valence, Ruthenium-poly-pyridine, 1303
- Benzotriazole complexes
Rhenium complexes, Oxo-complexes, Crystal structures, Spectroscopic investigation, 2869
- Benzyl
Copper(II), Mixed-ligand complexes, Crystal structures, π,π -Stacking, Nitro, 1039
- Benzyl alanine esters
2-Hydroxypropyl *p*-nitrophenyl phosphate, Glycine-alanine, Lanthanide complexes, 711
- Benzylamine
Cyclometallation, Palladium(II) acetate, 287
- BETS
Molecular magnetism, Organic superconductor, Effective exchange integral, Ab initio MO method, Density functional method, BEDT-TTF, TMTTF, TMTSF, 2051
- BETS
Superconducting transition, Muon, 2307
- Biaryl
Manganese, Epoxidation, Schiff-base, Chiral-at-metal, 1617
- Bicyclic guanidinate
Tantalum, Intermolecular hydrogen bonds, Coordination isomer, Dodecahedral geometry, 2731
- Bidentate chelating ligand
Ruthenium(II) carbonyl complexes, Phosphine-phosphinesulfide, X-ray crystal structures, Octahedral structures, Steric effect, 2725
- Bidentate ligand
Cis and *trans* Co(II) isomers, Crystal structure, UV-Vis and IR spectra, 1329

- Bidentate nitrogen ligands
 Palladium, Platinum, Chirality, Antitumor compounds, Crystal structures, 1529
- Biferrocenium
 Metallocene, Pyridinyl, Supramolecule, 1199
- Bifunctional ligand
 Coordination polymer, Noncentrosymmetric structures, Metal-organic framework, Inclusion compounds, Rectangular grid, 235
- 2,2'-Biimidazole
 Pd(II) and Pt(II) complexes, Pt(I) complexes, *N,N'*-Dimethyl-2,2'-biimidazole, Crystal structure, DNA interactions, Solvolysis by DMSO, 1113
- Bimetallic coordination polymers
 Dicyanamide, Crystal structures, Magnetic properties, Sandwich, Template, 433
- Bimetallic oxalato complexes
 Radical salts, Tetrathiafulvalene, Molecular magnetism, Conducting properties, 2381
- Binuclear copper(II) complexes
 Macrocyclic ligands, Magnetochemistry, Electrochemistry, Catalytic activity, 1407
- Binuclear nickel(II) complex
 Crystal structure, Magnetic properties, End-on azido ligand complex, Terminal azido ion complex, Hexadentate ligand, 257
- Binucleating ligand
 Nickel(II) complexes, Electrochemistry, 989
- Bioactivity
 Copper, Peptide, Creatinine, Benzimidazole, 3255
- Biological activity
 Ruthenium(II) complexes, NS-donors, Thiosemicarbazones, X-ray crystal structures, 447
- Bipy
 Hydrothermal reaction, Crystal structure, Succinate, Open-framework, 3097
- 2,2'-Bipyridine
 Copper, Silver, Ruthenium, Metallostar, X-ray, 93
- Bipyridine
 Pentamethylcyclopentadienyl, Indenyl, Ruthenium, Molecular structures, Phenanthroline, 307
- 2,2'-Bipyridine
 Praseodymium complexes, Lanthanide, Thiocyanate, Chloride, Nitrate, Dithiocarbamate, Crystal structures, 347
- Bipyridine
 Spiropyrans, Spirooxazine, Ruthenium complexes, Molecular device, 655
- 4,4'-Bipyridine-N,N'-dioxide
 Cobalt complexes, Manganese complexes, Copper complexes, Extended structures, 789
- Bipyridine
 Copper(II) complexes, Iminodiacetate, Imidazole, Crystal structure, Aromatic π -stacking, 1027
- Bipyridine
 Cyclopentadienyl, Osmium, Chelating ligands, Phenanthroline, 1391
- Bipyridine
 Rhenium, Nitrosyl, Oxo, X-ray structures, Electronic structures, 2573
- 4,4'-bipyridine
 Coordination polymers, Crystal structures, Transition metal ions, Network solids, 2821
- 2,2'-Bipyridine
 Manganese(II) complexes, 2,2-Dimethylpentanedioic acid, 3,3-Dimethylpentanedioic acid, 1,10-Phenanthroline, Crystal structure, Anti-*Candida* activity, 3187
- 2,2'-Bipyridine
 Cadmium(II) complex, Double-helix, Isophthalate, Polymeric tubes, Zinc(II) complex, 1231
- 2,2'-Bipyridine complexes
 Optically active sulfur-bridged complexes, Dinuclear Co(III)-Pd(II) and Co(III)-Pt(II) complexes, Crystal structures, Spectrochemistry, 1507
- 2,2'-Biquinoline
p-Cymene, Hexamethylbenzene, Ruthenium, Terpyridine, 2,9-Dimethyl, 4,7-Diphenyl-1, 10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- Biradical
 Organic ferromagnet, Pressure effect, Curie temperature, Exchange interactions, 2287
- Biradicals
 Exchange coupling, Heterospin, Spin diverse, 2423
- Bis(diphenylphosphino)methane dioxide
 Catalytic properties, Complexes, 967
- Bis(diphenylphosphino)amine
 Bis(diphenylphosphino)methane, Nickel cluster, 1641
- 1,4-bis(diphenylphosphino)butane
 Ruthenium(II)-bipy derivative complexes, Photoisomerization, 3205
- Bis(diphenylphosphino)methane
 Bis(diphenylphosphino)amine, Nickel cluster, 1641
- Bis(imidazolyl)borate ligand
 Organotin(IV), Tin-119 NMR, Electrospray mass spectroscopy, 499
- Bis(mercaptoimidazolyl)borate complexes
 Thallium, Cadmium, Thiolates, Crystal structures, 3461
- Bis(9-(10-phenyl)anthryl)carbene
 Polycarbene, Ab initio method, Effective exchange integral, AO-fitting, AO-approach, 2067
- 2,6-bis(pyrazol-3-yl)pyridine
 Thermal spin transition, Transition temperature, Hydration, 2375
- 1,2-Bis(4-pyridinecarboxamido)ethane
 Copper (II) complexes, X-ray structures, Hydrogen bonding, Coordination polymers, Supramolecular isomers, 3493
- Bis(2-pyridylthio)methane
 Cadmium(II) complexes, Eight-membered chelate rings, X-ray diffraction, Cadmium(II) halides, NMR spectroscopy, 1077
- 2,3-Bis(α -pyridyl)quinoxaline
p-Cymene, Hexamethylbenzene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1, 10-Phenanthroline, 3155
- Bis(phosphino)amines, ruthenium
 Octahedral complexes, Crystal structures, Cyclic voltammetry, 587
- Bisferrocenylimine
 Cyclomercuration, 1249
- Bisphosphine ligands
 Substitution, Iron, Thiocarboxylate, Structure, 3445
- Bistability
 Spin-crossover, Magnetic field effect, Ising-like model, Monte Carlo, 2441
- ¹¹B NMR
 Borate-polysaccharide complexes, Speciation, Polymer length, Conformation, 909
- Bonding
 Hydrazine, Hydrogen, Structures, 1397
- Boranes
 Heteroboranes, NMR spectroscopy, Geometry optimisation, GIAO, 3541
- Borate-polysaccharide complexes
 Speciation, Polymer length, Conformation, ¹¹B NMR, 909
- Boron
 Carbonyl complexes, Manganese, Octahydrotriborate(2-), Organophosphine ligands, Ruthenium, X-ray structures, 1627
- B-O-Si linkages
 Cyclo-boratetrasiloxanes, Cyclocondensation, Lewis acidity, 3333
- Bridging
 Self-assembly, Ligand, Tetrahedral cage, Anion binding, 781
- Bridging ligand
 Coordination chemistry, Metallacycles, Coordination modes, 1837
- Bridging ligands
 Ruthenium, N ligand, Heterometallic complexes, EXAFS spectroscopy, 2799
- Bridging ligands
 Structural and magnetic properties, Chain polymers, X-ray diffraction, 3025
- Bromine
 Antimony, Isobutyl group, Ring-ring equilibrium, X-ray diffraction, NMR spectra, 1719
- Bulk magnetism
 Molecule-based magnets, *p*-(nitro)Phenyl nitronyl nitroxide, Theoretical analysis, Magnetic structures, 1935
- Bulk modulus
 Canted antiferromagnet, Fe complex, Molecular magnet, High pressure, Compressibility, 2139
- 1,4-Butylenediphosphonates
 Crystal structures, Transition-metal, 2739
- Caboxylate
 Malonate, Magnetic properties, Molecular magnetism, 2111
- Cadmium
 Cadmium halides, Coordination polymers, Framework materials, Hydrothermal synthesis, 3043

- Cadmium
Tetradentate, Quadridentate, Schiff-base, Polymeric, 3213
- Cadmium
Thallium, Thiolates, Bis(mercaptopimidazolyl)borate complexes, Crystal structures, 3461
- Cadmium (II) complexes
Arylazimidazoles, Square grid, X-ray structure, 3161
- Cadmium halides
Cadmium, Coordination polymers, Framework materials, Hydrothermal synthesis, 3043
- Cadmium sulfide
Nanocrystallites, Single-source precursor method, 3129
- Cadmium(II)
Coordination polymers, Hexamethylene-tetramine, Terephthalate, Thiocyanate, 2933
- Cadmium(II) azido and thiocyanato complexes
Pyridine derivative complexes, Preparation, Spectra, Crystal structures, 975
- Cadmium(II) complex
2,2'-Bipyridine, Double-helix, Isophthalate, Polymeric tubes, Zinc(II) complex, 1231
- Cadmium(II) complexes
N-Alkylthiourea, Synthesis, X-ray structures, 595
- Cadmium(II) complexes
Bis(2-pyridylthio)methane, Eight-membered chelate rings, X-ray diffraction, Cadmium(II) halides, NMR spectroscopy, 1077
- Cadmium(II) halides
Bis(2-pyridylthio)methane, Cadmium(II) complexes, Eight-membered chelate rings, X-ray diffraction, NMR spectroscopy, 1077
- Cadmium(II) pseudohalides
Pyridine derivative complexes, Syntheses, Spectra, Crystal structures, 3137
- Calixarenes
Uranyl ion, Homooxacalixarenes, Clusters, Crystal structures, 3499
- Candida albicans*
(Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropenitrile, Metal complexes, X-ray structures, Silver(I), Anti-fungal, 1595
- Canted antiferromagnet
Fe complex, Molecular magnet, High pressure, Compressibility, Bulk modulus, 2139
- Canted antiferromagnetism
Molecular magnetism, Metamagnetism, a.c. susceptibility, High pressure, 2249
- Carbacylamidophosphates
Phosphorylic ligands, Self-complementary molecules, Supramolecular chemistry, 1221
- Carbazole
N-carbazolylacetate, Crystal structures, Complexes, Photoluminescence, 397
- Carbenes
Palladium, Platinum, Iodine, Crystal structures, Luminescence, 1515
- Carbenes
Copper, Assembly, Spin-glass, Magnetic properties, Photolysis, 1877
- Carbonyl
Thiocarbonate complexes, Iron, X-ray structure, Sulfur-ligands, 3105
- Carbonyl complexes
Boron, Manganese, Octahydrotriborate(2-), Organophosphine ligands, Ruthenium, X-ray structures, 1627
- Carborane
Isomerisation, Synthesis, Spectroscopy, Crystallographic study, Vertex labelling, 1293
- Carborane ligands
Cobalt complexes, Nitrosyl ligands, Crystal structures, 109
- Carboxylate
Coordination network, Double betaine, Transition metal, 811
- Carboxylate
Cobalt, Iron, Magnetism, Manganese, Pyromellitate, Framework, 1921
- Carboxylate
Molecular magnetism, Supramolecular, Radical, Co(II) complexes, Hydrogen-bond, 1929
- Carboxylate
Malonate, Magnetic properties, Molecular magnetism, 2111
- Carboxylate
Coordination network, Double betaine, Lanthanide salt, 2787
- Carboxylate chain structures
Manganese(III), Hydrogen-bonded sheets, Metamagnetism, Crystal structures, 2161
- Carboxylates
Hydrogen bonding, Crystal engineering, Zinc, X-ray crystal structures, 673
- CASPT2
Ab initio calculations, Difference dedicated CI, Magnetic properties, Oxalato-bridged complexes, Hetero-bimetallic complexes, 2409
- Catalysis
Co-ordination chemistry, Platinum, Hemilabile, Phosphines, Chelate ligands, 19
- Catalysis
Lanthanides, Amides, Compound, Polymerization, Polymer, 1019
- Catalytic activity
Binuclear copper(II) complexes, Macro-bicyclic ligands, Magnetochemistry, Electrochemistry, 1407
- Catalytic activity
Ternary manganese(II) complexes, 1,10-Phenanthroline, Neocuproine, Indole-2-carboxylic acid, Crystal structures, IR, 1461
- Catalytic activity
Macrocyclic copper(II) complexes, Tricompartmental ligands, Magnetic properties, Electrochemical properties, 3483
- Catalytic epoxidation
Salen Cu(II) complexes, Schiff-base ligands, Iodosylbenzene, Styrene, Hammett substituent constants, 1653
- Catalytic properties
Complexes, Bis(diphenylphino)methane dioxide, 967
- Catechol
Mn^{III}-Schiff base complex, Crystal structures, Redox activity, Hydroquinone, 1191
- Cd compounds
Coordination chemistry, Schiff bases, X-ray structure determination, Hydrogen bonding, Reversible absorption and desorption of water, 3451
- Centrosymmetric dimer
Antiferromagnetic interaction, Singlet-triplet, Curie-Weiss law, 2311
- Chain polymers
Structural and magnetic properties, X-ray diffraction, Bridging ligands, 3025
- Chalcogens
Diphosphino ligands, Pyridine, Tin(IV), X-ray crystallography, 1585
- Channel
Ferromagnetic interaction, Supramolecule, Nitroxide, Ligand, Free radical, 2133
- Charge fluctuation
Oxophenalenoxyl, Radical dianion, Redox-based spin diversity, Spin structure, Density functional calculation, 2209
- Charge repulsion
Acidity constants, Phosphonate complexes, Pyrimidine nucleotide analogue, Stability constants, Stacking interactions, Ternary complexes, 1067
- Charge transfer transitions
Electrical conductivities, Crystal structures, Fluorescence spectroscopies, Molar conductances, 3547
- Charge-transfer band
Valence tautomerism, Cobalt, Magnetic moment, 2401
- Charge-transfer salts
Dithiolates, Gold(III) complexes, Crystallographic studies, Magnetic properties, Electrical transport properties, 2447
- Charged biradical
Organic ferrimagnet, Nitronyl nitroxide, Magnetic susceptibility, Electron spin resonance, Supramolecular crystal engineering, 1817
- Charged high-spin systems
Oligoarylamines, Coupling reactions, Electrochemical methods, UV-Vis absorption, Organic mixed-valence system, 2003
- C-H·π Interaction
Cobalt(III) isomers, X-ray crystal structures, 2D NMR, Energy minimisation, 3467
- CH··Cl bonding
Hydrogen bonding, CH··O bonding, CH··N bonding, Poly(pyrazolyl)borate ligands modified, Supramolecular interactions, 1123

- CH···N bonding**
Hydrogen bonding, CH···O bonding, CH···Cl bonding, Poly(pyrazolyl)borate ligands modified, Supramolecular interactions, 1123
- CH···O bonding**
Hydrogen bonding, CH···N bonding, CH···Cl bonding, Poly(pyrazolyl)borate ligands modified, Supramolecular interactions, 1123
- CH···O hydrogen bonds**
Dibenzotetraaza[14]annulenes, Alkoxy-carbonylation, Macrocyclic Schiff bases, Stacking, 3299
- Chelate complexes**
Diimine, Diazadiene, Palladium, 1447
- Chelate ligands**
Co-ordination chemistry, Platinum, Catalysis, Hemi-labile, Phosphines, 19
- Chelating**
Palladium(II) cyclometallated complexes, Crystal and molecular structures, Ammonium hexafluorophosphate, Phosphines, 241
- Chelating ligands**
Cyclopentadienyl, Osmium, Bipyridine, Phenanthroline, 1391
- Chelation**
Organotin, Phosphine oxide, Crystal structures, 3277
- Chemical vapor deposition**
Copper(II) complexes, Dialkyldithiocarbamate ligands, Volatility, Crystal structures, Thermal studies, 1575
- Chiral complexes**
Macrocycles, Lanthanide complexes, NMR, 2877
- Chiral compounds**
Platinum, Imine ligands, Oxidative addition, Steric effects, Crystal structure, 3363
- Chiral ligands**
Cyanide complexes, Molecular magnets, 2435
- Chiral-at-metal**
Manganese, Epoxidation, Biaryl, Schiff-base, 1617
- Chiral-at-metal complexes**
Configurational stability, Epimerization, Diastereomer equilibria, X-ray structure analyses, 861
- Chiral-at-metal complexes**
Rhodium, Configurational stability, Epimerization, X-ray structure analyses, 2639
- Chirality**
Palladium, Platinum, Bidentate nitrogen ligands, Antitumor compounds, Crystal structures, 1529
- Chirality**
Circular dichroism, Nitroxide, Manganese, 2349
- Chirality**
Single molecule magnet, Susceptibility, Manganese, Magnetic clusters, 2355
- Chloride**
Amide, Gallium, Ligand exchange, Titanium, 9
- Chloride**
Praseodymium complexes, Lanthanide, 2,2'-Bipyridine, Thiocyanate, Nitrate, Dithiocarbamate, Crystal structures, 347
- Chloride**
Coordination chemistry, β -Diketiminato ligand, Titanium(III), Fluoride, 2669
- Chromaticity**
Cobalt(II) complexes, Schiff base, Salicylideneaniline, Solutions, Ligand-field parameters, Electronic spectra, Solvatochromism, 997
- Chromium picolinate**
8-OHdG, Lipid peroxidation, Rats, DNA, 455
- Chromium thioantimonates**
Solvothermal synthesis, Crystal structure, 2839
- Chromium(III)**
 μ -Oxalato-bridge, Copper(II), Iron(III), Heterotrinuclear complexes, Magnetism, 3223
- Circular dichroism**
Chirality, Nitroxide, Manganese, 2349
- Circular dichroism spectra (CD)**
Salen ligands, Axial coordination cobalt(III) complexes, X-ray structures, 1535
- Cis and trans Co(II) isomers**
Bidentate ligand, Crystal structure, UV–Vis and IR spectra, 1329
- Cluster glass**
Molecule-based magnet, Magnetic properties, Cobalt, 2387
- Clusters**
Ruthenium, Sensors, ArgoGel resins, Supported transition metals, Gas sensing, 3
- Clusters**
Tellurium, Sulfur, Laser ablation synthesis, Mass spectrometry, Post-source decay, 2601
- Clusters**
Rhenium, Copper, Sulfur, Selenium, Tellurium, 3383
- Clusters**
Uranyl ion, Calixarenes, Homooxacalixarenes, Crystal structures, 3499
- ^{13}C NMR**
Iron, Dithiocarbamate, Diselenocarbamate, Thioselenocarbamate, Nitrosyl, ^{15}N NMR, 3423
- ^{13}C NMR**
Quantum spin chain, $S=1/2$ antiferromagnet, Cu complex, Molecular magnet, Field-induced excitation gap, 2273
- Co(II) complexes**
Zn(II) complexes, Crystal structures, Multi-directional ligand, Polydentate pyridine ligand, N-donor ligand, 205
- Co(II) complexes**
Molecular magnetism, Supramolecular, Carboxylate, Radical, Hydrogen-bond, 1929
- Co-ordination chemistry**
Platinum, Catalysis, Hemi-labile, Phosphines, Chelate ligands, 19
- CO/O₂ discrimination**
Electron-pair repulsion, Polarizing molecular mechanics, Iron–porphyrin complex, Heme charge, Oxygen fixation, 1091
- Co^{II}-edta-type complexes**
Crystal packing, Electronic absorption spectra, 2745
- Cobaloximes**
Cobalt(III) complexes, Diphenylglyoximate ligands, Dimethylglyoximate ligands, NMR spectroscopy, Crystal structures, 2809
- Cobalt**
Decafluorodiphenylamido, Titanium, Zirconium, Vanadium, Iron, 153
- Cobalt**
Nickel, Copper, Tetra(*3-iso*-propylpyrazolyl)borate, Structures, Magnetism, 1645
- Cobalt**
Carboxylate, Iron, Magnetism, Manganese, Pyromellitate, Framework, 1921
- Cobalt**
Molecule-based magnet, Magnetic properties, Cluster glass, 2387
- Cobalt**
Valence tautomerism, Magnetic moment, Charge-transfer band, 2401
- Cobalt acetate**
Oxo-centred trimers, Ancillary ligands, X-ray crystal structures, 947
- Cobalt cluster**
Magnetic properties, Crystal structures, Hydrothermal synthesis, MCD, 1917
- Cobalt complexes**
Nitrosyl ligands, Crystal structures, Carbaborane ligands, 109
- Cobalt complexes**
Manganese complexes, Copper complexes, 4,4'-Bipyridine-N,N'-dioxide, Extended structures, 789
- Cobalt complexes**
Rhodium complexes, Metal–metal bonds, X-ray structure analyses, Electronic structures, Cyclic voltammetry, 3413
- Cobalt oxydiacetate**
Coordination polymer, Hydro(solvo)thermal synthesis, Topological isomerism, Interconversion, Self-assembly, 2953
- Cobalt(II)**
Iron(III), Nickel(II), Copper(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridineformamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Cobalt(II)**
Molecular magnets, Copper(II), Manganese(II), Nitroxide, Magnetic exchange coupling, 2487
- Cobalt(II) clusters**
Kinetic exchange, Magnetic anisotropy, 2537
- Cobalt(II) complexes**
Schiff base, Salicylideneaniline, Solutions, Ligand-field parameters, Electronic spectra, Chromaticity, Solvatochromism, 997

- Cobalt(II) complexes**
Arylazimidazoles, EO azido bridged complexes, X-ray structures, 2587
- Cobalt(II) complexes**
Imidazole-4-acetic acid, Manganese(II) complexes, X-ray structure, Absorption spectra, EPR spectra, 3123
- Cobalt(III) complex**
Manganese(IV) complex, Crystal structure, Magnetic moment, Hydrogen bonds, 3515
- Cobalt(III) complexes**
Sym-fac-[Co(bpma)(bipy)Cl]²⁺ isomer, Isomer preference, Crystal structures, Energy minimisation, 263
- Cobalt(III) complexes**
Nickel(II) complexes, Synthesis, Spectroscopy, Thiosemicarbazone, X-ray crystallography, 383
- Cobalt(III) complexes**
X-ray structures, Diethylenetriamine, Isobutylenediamine, 1603
- Cobalt(III) complexes**
Cobaloximes, Diphenylglyoximato ligands, Dimethylglyoximato ligands, NMR spectroscopy, Crystal structures, 2809
- Cobalt(III) isomers**
C–H···π Interaction, X-ray crystal structures, 2D NMR, Energy minimisation, 3467
- Columnar structure**
Neutral radical, Diazaphenalenyl, ¹⁵N atom, Gyromagnetic ratio, Spin structure, 2199
- Compartmental ligands**
Crystal structure, Tetranuclear nickel(II) complexes, Dinickel(II) complexes, 75
- Complex formation**
Palladium(II), Glutathione, L-Cysteine, Sodium dodecyl sulfate, Micellar catalysis, 279
- Complex formation**
Isotopic fractionation, Ion-exchange chromatography, Dimerization, Separation coefficient, Molecular vibration, 1377
- Complexation**
Macrocyclic compounds, Transition metal ions, Conductometry, Potentiometry, 569
- Complexed ligand**
 $\kappa^2N:\kappa^3N$ Bridging fashion, Local C_2 symmetry, Ferromagnetic behavior, 1789
- Complexes**
Carbazole, *N*-carbazolylacetate, Crystal structures, Photoluminescence, 397
- Complexes**
Crystal structures, Pteridine, Lumazine, 483
- Complexes**
Anion, Receptor, Emission intensity, Ruthenium, 775
- Complexes**
Catalytic properties, Bis(diphenylphino)-methane dioxide, 967
- Complexes**
Vanadium, Schiff bases, 1009
- Complexes**
Dimalonate[C_{60}]fullerene protonation, Uranyl, Stability constants, 1085
- Compound**
Lanthanides, Amides, Catalysis, Polymerization, Polymer, 1019
- Compressibility**
Canted antiferromagnet, Fe complex, Molecular magnet, High pressure, Bulk modulus, 2139
- Conducting properties**
Radical salts, Tetrathiafulvalene, Bimetallic oxalato complexes, Molecular magnetism, 2381
- Conductometry**
Macrocyclic compounds, Transition metal ions, Complexation, Potentiometry, 569
- Configurational stability**
Chiral-at-metal complexes, Epimerization, Diastereomer equilibria, X-ray structure analyses, 861
- Configurational stability**
Chiral-at-metal complexes, Rhodium, Epimerization, X-ray structure analyses, 2639
- Conformation**
Borate-polysaccharide complexes, Speciation, Polymer length, ¹¹B NMR, 909
- Conjugated polymer**
Polyradical, Phenoxy, Poly(aryleneethynylene), Anthracene, High-spin polymer, 1845
- η^2 -Coordination**
3,5-Di-*t*-butylpyrazolyl, Molybdenum complexes, [pz^{Bu^t}₂]Mo(PMe₃)₄H, Mo(PMe₃)₆, 199
- Coordination chemistry**
Bridging ligand, Metallacycles, Coordination modes, 1837
- Coordination chemistry**
 β -Diketiminato ligand, Titanium(III), Chloride, Fluoride, 2669
- Coordination chemistry**
Supramolecular chemistry, Copper, Self-assemblies, Oligomers, 2985
- Coordination chemistry**
Schiff bases, Cd compounds, X-ray structure determination, Hydrogen bonding, Reversible absorption and desorption of water, 3451
- Coordination compound**
Supramolecular architecture, Lanthanide, Glycine, 1,10-Phenanthroline, Non-covalent interactions, 2617
- Coordination compounds**
Naphylazoimidazole, H-bonding, Organomercuration, X-ray structure, 1367
- Coordination isomer**
Tantalum, Bicyclic guanidinate, Intermolecular hydrogen bonds, Dodecahedral geometry, 2731
- Coordination mode**
Lead, Dicyanamide, Coordination polymer, Double-stranded, One-dimensional, 917
- Coordination modes**
Coordination chemistry, Bridging ligand, Metallacycles, 1837
- 2D coordination networks**
Solid-state, X-ray structures, Vanadium oxo clusters, 3037
- Coordination network**
Carboxylate, Double betaine, Transition metal, 811
- Coordination network**
Carboxylate, Double betaine, Lanthanide salt, 2787
- Coordination polymer**
Noncentrosymmetric structures, Metal-organic framework, Inclusion compounds, Rectangular grid, Bifunctional ligand, 235
- Coordination polymer**
Thioquinoline units, Mononuclear complexes, 507
- Coordination polymer**
Lead, Dicyanamide, Coordination mode, Double-stranded, One-dimensional, 917
- Coordination polymer**
Hydro(solvo)thermal synthesis, Cobalt oxydiacetate, Topological isomerism, Interconversion, Self-assembly, 2953
- Coordination polymers**
Cu(II) complexes, Mercury, Cyanide ligands, Magnetic properties, 1735
- Coordination polymers**
Cyano-bridged coordination compounds, Crystal structures, Octacyanometallates, Molecular magnets, 2183
- Coordination polymers**
TEMPO, Nitroxides, Copper(II) complexes, Manganese(II) complexes, 2363
- Coordination polymers**
Manganese, Suberato complexes, X-ray structures, 2699
- Coordination polymers**
Crystal structures, Transition metal ions, 4,4'-bipyridine, Network solids, 2821
- Coordination polymers**
Cadmium, Hexamethylenetetramine, Terephthalate, Thiocyanate, 2933
- Coordination polymers**
Metal clusters, Supramolecular chemistries, Single crystal X-ray diffractions, 2999
- Coordination polymers**
Synthesis, Crystal structures, 4,7-Phenanthroline, Cu(I), 3015
- Coordination polymers**
Cadmium, Cadmium halides, Framework materials, Hydrothermal synthesis, 3043
- Coordination polymers**
1,2-Bis(4-pyridinecarboxamido)ethane, Copper (II) complexes, X-ray structures, Hydrogen bonding, Supramolecular isomers, 3493
- Coordination shift**
Zn(II) complexes, Purine, ¹⁵N NMR, HETCOR, CPMAS, 391
- Copper**
Silver, Ruthenium, 2,2'-Bipyridine, Metallostar, X-ray, 93

- Copper**
 Tetradentate, Quadridentate, Schiff-base, Polymethylenediamine, Salicylidene, 887
- Copper**
 Cobalt, Nickel, Tetra(3-*iso*-propylpyrazolyl)borate, Structures, Magnetism, 1645
- Copper**
 Carbenes, Assembly, Spin-glass, Magnetic properties, Photolysis, 1877
- Copper**
 Gadolinium, Trinuclear complex, Magnetic property, Crystal structure, 1905
- Copper**
 X-ray diffraction, Neutron powder diffraction, Pyrazine, Quantum spin chain, 2045
- Copper**
 DFT calculation, Verdazyl, Singlet-triplet separation, 2241
- Copper**
 Magnetic measurement, Schiff base, Cubane structure, Nickel, Manganese, 2359
- Copper**
 Hydroxyacetophenone, Thiosemicarbazone, Nickel, Crystal structures, Metal(II) complexes, 2831
- Copper**
 Supramolecular chemistry, Self-assemblies, Coordination chemistry, Oligomers, 2985
- Copper**
 Porphyrazines, Phthalocyanines, Magnesium, Zinc, Electrochemistry, 3083
- Copper**
 Polyoxometallates, Octamolybdates, Keggin-type anions, Imidazole ligands, 3091
- Copper**
 Peptide, Creatinine, Benzimidazole, Bioactivity, 3255
- Copper**
 Rhenium, Clusters, Sulfur, Selenium, Tellurium, 3383
- Copper (II) complexes**
 1,2-Bis(4-pyridinecarboxamido)ethane, X-ray structures, Hydrogen bonding, Coordination polymers, Supramolecular isomers, 3493
- Copper complex**
 N,N'-disubstituted diaza-18-crown-6, Crystal structure, 3249
- Copper complexes**
 Crystal structures, Pyridazine ligands, Pyrimidine ligands, Thermogravimetric analysis, Triazine ligands, 419
- Copper complexes**
 Cobalt complexes, Manganese complexes, 4,4'-Bipyridine-N,N'-dioxide, Extended structures, 789
- Copper complexes**
 Dissymmetric Schiff base, Mixed donor set, X-ray structures, Cyclic voltammetry, 1437
- Copper complexes**
 Template synthesis, Direct synthesis, Schiff-base, Oxaaza macrocycles, 1701
- Copper(I)**
 Diphosphines, Perfluorinated carboxylates, NMR, MS, 3389
- Copper(I) complex**
 Triazene, Triazenede, Silver(I) complex, Dinuclear structure, 563
- Copper(I) complexes**
 Naphthylazoimidazoles, X-ray structures, Electrochemistry, EHMO, 247
- Copper(I) complexes**
 Dimethylpicolinato complexes, Hexacoordinate copper(I), Synthesis, Spectra, Crystal structures, 515
- Copper(II)**
 Iron(III), Cobalt(II), Nickel(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridineformamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Copper(II)**
 Guanidinoacetic acid, Guanidino-carboxylate interactions, Ternary complexes, Stability constants, Potentiometry, 225
- Copper(II)**
 Thiodiglycolic acid complexes, Crystal structures, EPR, Magnetic properties, 411
- Copper(II)**
 Asymmetrical tetradentate Schiff base, X-ray crystallography, Cu(II) catalysed hydrolysis, 617
- Copper(II)**
 Mixed-ligand complexes, Crystal structures, π,π -Stacking, Nitro, Benzyl, 1039
- Copper(II)**
 Molecular magnets, Nitroxide, Imidazole, Exchange coupling, 1957
- Copper(II)**
 Spin ladder, Antiferromagnetic, Quinoxaline, 2325
- Copper(II)**
 Molecular magnets, Manganese(II), Cobalt(II), Nitroxide, Magnetic exchange coupling, 2487
- Copper(II)**
 μ -Oxalato-bridge, Chromium(III), Iron(III), Heterotrinuclear complexes, Magnetism, 3223
- Copper(II)**
 Thiosemicarbazone, Electronic spectra, IR spectra, EPR, X-ray crystal structure, 3321
- Copper(II) complexes**
 Mannich, α -Amino acids, Formaldehyde, Acetamide, 521
- Copper(II) complexes**
 Tetranuclear complexes, Magnetic properties and ferromagnetic interactions, 625
- Copper(II) complexes**
 Iminodiacetate, Imidazole, Bipyridine, Crystal structure, Aromatic π,π -stacking, 1027
- Copper(II) complexes**
 Dialkyldithiocarbamate ligands, Chemical vapor deposition, Volatility, Crystal structures, Thermal studies, 1575
- Copper(II) complexes**
 Magnetic behavior, Exchange interaction, Iminonitroxide, 1803
- Copper(II) complexes**
 Coordination polymers, TEMPO, Nitroxides, Manganese(II) complexes, 2363
- Copper(II) complexes**
 Self-assembly, Structural elucidation, Magnetic properties, 2661
- Copper(II) complexes**
 Salicylaldehyde semicarbazone, Crystal structures, 2781
- Copper (II) complexes**
 1,2-Bis(4-pyridinecarboxamido)ethane, X-ray structures, Hydrogen bonding, Coordination polymers, Supramolecular isomers, 3493
- Copper(II) coordination compounds**
 Malonate ligands, Dicarboxylates, Ferromagnetism, 2143
- Copper(II)-Schiff base complexes**
N-Salicylidene derivative, X-ray structures, Ternary copper(II) complexes, Toxicity of copper(II) complexes, *Drosophila melanogaster*, 403
- Coulombic repulsion**
 Keggan anion, Electron transfer, Ab initio calculation, Magnetic coupling, 2331
- Coupling reactions**
 Oligoarylamines, Electrochemical methods, UV-Vis absorption, Charged high-spin systems, Organic mixed-valence system, 2003
- Covalent spin delocalisation**
 Spin density, Superexchange magnetic interaction, 2297
- CPMAS**
 Zn(II) complexes, Purine, ^{15}N NMR, HETCOR, Coordination shift, 391
- Creatinine**
 Copper, Peptide, Benzimidazole, Bioactivity, 3255
- 12-Crown-4**
 Lithium, Sodium, Potassium, Amide ligands, Crystal structures, 3507
- Crown ethers**
 Divalent europium, Lanthanides, Structures, Luminescence, 337
- Crown thioether**
 Weak-ferromagnetism, Ferrimagnet, Molecular based magnet, Transition metal complex, Benzene dithiolate, 1755
- Cryptands**
 Polyether macrocycles, Xanthate, Methyl viologen, 795
- Crystal**
 Trpn, Abpt, Monoclinic, Octahedral geometry, Intramolecular hydrogen bonding, 3181
- Crystal and molecular structures**
 Palladium(II) cyclometallated complexes, Ammonium hexafluorophosphate, Chelating, Phosphines, 241
- Crystal engineering**
 Hydrogen bonding, Zinc, Carboxylates, X-ray crystal structures, 673
- Crystal packing**
 Diphosphine complexes, Nickel complexes, Molecular structures, 1567

- Crystal packing
 Co^{II} -edta-type complexes, Electronic absorption spectra, 2745
- Crystal sponge
 4-Hydroxypyrimidine, Nanoporous material, N,N'-exobidentate mode, 3051
- Crystal structure
 Tetranuclear nickel(II) complexes, Dinickel(II) complexes, Compartmental ligands, 75
- Crystal structure
 Binuclear nickel(II) complex, Magnetic properties, End-on azido ligand complex, Terminal azido ion complex, Hexadentate ligand, 257
- Crystal structure
 Dicarboxyl, Helicate, 643
- Crystal structure
 Copper(II) complexes, Iminodiacetate, Imidazole, Bipyridine, Aromatic π,π -stacking, 1027
- Crystal structure
 Pd^{II} and Pt^{II} complexes, Pt^{I} complexes, 2,2'-Biimidazole, *N,N'*-Dimethyl-2,2'-biimidazole, DNA interactions, Solvolysis by DMSO, 1113
- Crystal structure
 Synthesis, Equilibria, Dinuclear complexes, Polyamines, Phenol, 1135
- Crystal structure
 Cyano-bridged complexes, Manganese complexes, Iron complexes, Macroyclic ligands, Magnetic properties, 1315
- Crystal structure
 Cis and trans Co(II) isomers, Bidentate ligand, UV-Vis and IR spectra, 1329
- Crystal structure
 Dithiocarbamate complexes, Nickel complexes, Sulfonamide, 1561
- Crystal structure
 Gadolinium, Copper, Trinuclear complex, Magnetic property, 1905
- Crystal structure
 Solvothermal synthesis, Chromium thioantimonates, 2839
- Crystal structure
 Hydrothermal reaction, Succinate, Bipy, Open-framework, 3097
- Crystal structure
 Manganese(II) complexes, 2,2-Dimethylpentanedioic acid, 3,3-Dimethylpentanedioic acid, 2,2'-Bipyridine, 1,10-Phenanthroline, Anti-*Candida* activity, 3187
- Crystal structure
 $\text{N,N}'$ -disubstituted diaza-18-crown-6, Copper complex, 3249
- Crystal structure
 Pentadentate Rh(III) complex, Ring conformations, 3265
- Crystal structure
 Dithiocarbimates, Zinc complexes, NMR, IR-spectroscopy, 3355
- Crystal structure
 Platinum, Imine ligands, Chiral compounds, Oxidative addition, Steric effects, 3363
- Crystal structure
 Antimony(V) compounds, Imidodiphosphinate ligands, 3395
- Crystal structure
 Manganese(IV) complex, Cobalt(III) complex, Magnetic moment, Hydrogen bonds, 3515
- Crystal structures
 Iron(III), Cobalt(II), Nickel(II), Copper (II), Palladium(II), Platinum(II), Spectral properties, 2-Pyridineformamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Crystal structures
 Cobalt complexes, Nitrosyl ligands, Carbonyl ligands, 109
- Crystal structures
 Polymeric, Mn compounds, Solid state, 133
- Crystal structures
 Dicyanonitrosomethanide derived oximate ligands, Mixed valent manganese clusters, Trinuclear, Tetranuclear, Magnetism, 165
- Crystal structures
 Zn^{II} complexes, Co(II) complexes, Multi-directional ligand, Polydentate pyridine ligand, N-donor ligand, 205
- Crystal structures
 $\text{Sym-fac-[Co(bpm)(bipy)Cl]}^{2+}$ isomer, Isomer preference, Cobalt(III) complexes, Energy minimisation, 263
- Crystal structures
 Lanthanides, Rare earths, Vibration spectra, 271
- Crystal structures
 Ni^{III} thiolate complexes, Magnetism, Spin canting, 299
- Crystal structures
 Niobium diphthalocyanine, Niobium(V) complexes, UV-Vis spectroscopy, 'Stapled' sandwich-type diphthalocyanine, Raman spectroscopy, 313
- Crystal structures
 Praseodymium complexes, Lanthanide, 2,2'-Bipyridine, Thiocyanate, Chloride, Nitrate, Dithiocarbamate, 347
- Crystal structures
 Phosphorus sulfur ligand, Monodentate bidentate, Transition metal complexes, 361
- Crystal structures
 Carbazole, *N*-carbazolylacetate, Complexes, Photoluminescence, 397
- Crystal structures
 Copper(II), Thiodiglycolic acid complexes, EPR, Magnetic properties, 411
- Crystal structures
 Copper complexes, Pyridazine ligands, Pyrimidine ligands, Thermogravimetric analysis, Triazine ligands, 419
- Crystal structures
 Bimetallic coordination polymers, Dicyanamide, Magnetic properties, Sandwich, Template, 433
- Crystal structures
 Synthesis, Lanthanide, Samarium, Ytterbium, β -Diketiminato ligand, 441
- Crystal structures
 Complexes, Pteridine, Lumazine, 483
- Crystal structures
 Syntheses, Zinc complexes, Polynitrile ligands, Fluorescence, 493
- Crystal structures
 Copper(I) complexes, Dimethyldipicolinate complexes, Hexa-coordinate copper(I), Synthesis, Spectra, 515
- Crystal structures
 Zinc(II) complexes, Macrocycles, Five-coordinated, Diamine-bridged, Dinuclear complexes, 529
- Crystal structures
 Bis(phosphino)amines, ruthenium, Octahedral complexes, Cyclic voltammetry, 587
- Crystal structures
 Palladium complexes, Insertion, Sulfur dioxide, 805
- Crystal structures
 Silver carboxylates complexes, Thermal analysis, 837
- Crystal structures
 $\text{Cu},\text{Zn-SOD}$ model, ESR magnetic susceptibility, SOD-like activity, 925
- Crystal structures
 Polyoxometalate, Phosphotungstate, NMR, Heteropolyanion, 933
- Crystal structures
 Nitrilotriacetate, Iminodiacetate, Iron, Hydrogen sulfide, 941
- Crystal structures
 Cadmium(II) azido and thiocyanato complexes, Pyridine derivative complexes, Preparation, Spectra, 975
- Crystal structures
 Copper(II), Mixed-ligand complexes, π,π -Stacking, Nitro, Benzyl, 1039
- Crystal structures
 Manganese(II), Nickel(II), Zinc(II), 2-Methyllactato complexes, Thermal analysis, 1051
- Crystal structures
 Zinc complexes, Sulfonamide ligands, Electrochemical synthesis, 1099
- Crystal structures
 Mercury(II) complexes, Thiosemicarbazone complexes, Spectral data, 1147
- Crystal structures
 Mn^{III} -Schiff base complex, Redox activity, Hydroquinone, Catechol, 1191
- Crystal structures
 Arylazomidazole, Azopyrimidine, Hg(II) complexes, 1205
- Crystal structures
 Arylazimidazole, Zinc(II) complexes, Hydrogen bonding, 1D chain, 1213
- Crystal structures
 Organolanthanide complex, Ytterbium, β -Diketiminato ligand, Synthesis, 1241
- Crystal structures
 Synthesis, Dirhenium, *Pseudo*-halides, Dication, Amidato, 1281
- Crystal structures
 Tetranuclear copper(II) complexes, Schiff bases, Molecular rectangles, 1385

- Crystal structures
Oligovanadates, L-Glutamic acid, L-Glutamine, Decomposition, Electronic spectra, 1415
- Crystal structures
Ternary manganese(II) complexes, 1,10-Phenanthroline, Neocuproine, Indole-2-carboxylic acid, IR, Catalytic activity, 1461
- Crystal structures
Optically active sulfur-bridged complexes, Dinuclear Co(III)-Pd(II) and Co(III)-Pt(II) complexes, 2,2'-Bipyridine complexes, Spectrochemistry, 1507
- Crystal structures
Carbenes, Palladium, Platinum, Iodine, Luminescence, 1515
- Crystal structures
Palladium, Platinum, Chirality, Bidentate nitrogen ligands, Antitumor compounds, 1529
- Crystal structures
Copper(II) complexes, Dialkyldithiocarbamate ligands, Chemical vapor deposition, Volatility, Thermal studies, 1575
- Crystal structures
Dicyanamido-bridged complexes, Manganese complexes, Macroyclic ligands, Magnetic properties, 1611
- Crystal structures
Thallium *meso*-tetra-(*p*-chlorophenyl)porphyrin, Indium *meso*-tetra-(*p*-chlorophenyl)porphyrin, Indium *meso*-tetra-(*p*-bromophenyl)porphyrin, 1633
- Crystal structures
Rhenium(V), Phosphinite ligands, Oxo-complexes, Alkoxo-complexes, 1711
- Crystal structures
Single-molecule magnets, Magnetic properties, 1765
- Crystal structures
Cobalt cluster, Magnetic properties, Hydrothermal synthesis, MCD, 1917
- Crystal structures
Manganese(III), Carboxylate chain structures, Hydrogen-bonded sheets, Metamagnetism, 2161
- Crystal structures
Cyano-bridged coordination compounds, Coordination polymers, Octacyanometalates, Molecular magnets, 2183
- Crystal structures
Manganese complexes, 1,1-Cyclobutane-dicarboxylate complexes, IR spectra, Thermal analysis, TG-FTIR analysis, 2595
- Crystal structures
Dirhenium complexes, Metal-metal multiple bonds, Face-sharing biocatahedral complexes, Thiolate ligands, Phosphine ligands, 2625
- Crystal structures
Schiff bases, Heteropolymetallic complexes, Uranyl ions, 2683
- Crystal structures
Dipyridininated manganese(II) phthalocyanine, Magnetic properties, Antiferromagnetic interactions, Oxidation, UV-Vis spectroscopy, 2689
- Crystal structures
Lead(II) complexes, Lariat ether, Macrocycle, Template synthesis, 2709
- Crystal structures
Europium organic complexes, Luminescence, Lifetime, Synthesis, 2719
- Crystal structures
Transition-metal, 1,4-Butylenediphosphonates, 2739
- Crystal structures
Alkoxide complexes, Phenolate ligands, Tungsten, 2755
- Crystal structures
2,5-Dimercapto-4-phenyl-1,3,4-thiodiazole, Organogermanium(IV), Non-bonded interaction, X-ray crystallography diffraction, 2767
- Crystal structures
Copper(II) complexes, Salicylaldehyde semicarbazone, 2781
- Crystal structures
Cobalt(III) complexes, Cobaloximes, Diphenylglyoximato ligands, Dimethylglyoximato ligands, NMR spectroscopy, 2809
- Crystal structures
Coordination polymers, Transition metal ions, 4,4'-bipyridine, Network solids, 2821
- Crystal structures
Hydroxyacetophenone, Thiosemicarbazone, Copper, Nickel, Metal(II) complexes, 2831
- Crystal structures
Rhenium complexes, Benzotriazole complexes, Oxo-complexes, Spectroscopic investigation, 2869
- Crystal structures
Trinuclear copper complexes, Magnetic properties, 2927
- Crystal structures
Synthesis, Coordination polymers, 4,7-Phenanthroline, Cu(I), 3015
- Crystal structures
Synthesis, Magnetic properties, Oxalato complexes, 3115
- Crystal structures
Rhodium, Rhodoximes, Oximates, Spectral properties, 3195
- Crystal structures
Organotin, Phosphine oxide, Chelation, 3277
- Crystal structures
Rhodium, 3,5-Dimethylpyrazole, Pentafluorophenylthiolate, Mercury, 3293
- Crystal structures
Dicyanamide complexes, Magnetic properties, 3315
- Crystal structures
Cadmium(II) pseudohalides, Pyridine derivative complexes, Syntheses, Spectra, 3137
- Crystal structures
Ylide complexes, Mercury(II), Silver(I), 3345
- Crystal structures
Uranyl ion, Calixarenes, Homooxacalix-arenes, Clusters, 3499
- Crystal structures
Lithium, Sodium, Potassium, Amide ligands, 12-Crown-4, 3507
- Crystal structures
Lanthanide complexes, 2-Hydroxynicotinic acid, Luminescence, 3529
- Crystal structures
Electrical conductivities, Charge transfer transitions, Fluorescence spectroscopies, Molar conductances, 3547
- Crystal structure
Iorn, Nonporous solids, 725
- Crystal water molecules
Prussian-blue analogs, Local magnetic structures, Solid-state ^{13}C NMR, Hyperfine coupling of CN ions, Solid-state high-resolution deuterium NMR, 1981
- Crystallization
Single-molecule magnets, Magnetization, Two-electron reduction, 1777
- Crystallographic studies
Dithiolates, Gold(III) complexes, Magnetic properties, Electrical transport properties, Charge-transfer salts, 2447
- Crystallographic study
Carborane, Isomerisation, Synthesis, Spectroscopy, Vertex labelling, 1293
- Crystallography
Pyridyl, Hexadentate, Ligand, Helicate, 755
- Cu complex
 ^{13}C NMR, Quantum spin chain, $S=1/2$ antiferromagnet, Molecular magnet, Field-induced excitation gap, 2273
- Cu(I)
Synthesis, Coordination polymers, crystal structures, 4,7-phenanthroline, 3015
- Cu(II) catalysed hydrolysis
Asymmetrical tetradentate Schiff base, Copper(II), X-ray crystallography, 617
- Cu(II) complexes
Mercury, Cyanide ligands, Coordination polymers, Magnetic properties, 1735
- Cu(II) complexes
Imino nitroxide, Nitronyl nitroxide, Molecular magnets, 2499
- Cu,Zn-SOD model
Crystal structures, ESR magnetic susceptibility, SOD-like activity, 925
- Cubane structure
Magnetic measurement, Schiff base, Copper, Nickel, Manganese, 2359
- Curie temperature
Organic ferromagnet, Pressure effect, Biradical, Exchange interactions, 2287
- Curie-Weiss law
Centrosymmetric dimer, Antiferromagnetic interaction, Singlet-triplet, 2311
- Cyanide
Pentafluoropropionate, Triflate, Trifluoroacetate, Silver, 217
- Cyanide complexes
Chiral ligands, Molecular magnets, 2435

- Cyanide ligands**
 Cu(II) complexes, Mercury, Coordination polymers, Magnetic properties, 1735
- Cyano-bridged complexes**
 Crystal structure, Manganese complexes, Iron complexes, Macrocyclic ligands, Magnetic properties, 1315
- Cyano-bridged coordination compounds**
 Coordination polymers, Crystal structures, Octacyanometallates, Molecular magnets, 2183
- Cyanohydrin trimethylsilyl ether**
 Acylferrocene, Trimethylsilyl cyanide, 1523
- Cyclic phosphazenes**
 MP2 method, Geometry optimization, Stable non-planar conformations, Electronic structures, 3243
- Cyclic phosphazines**
 Ab-initio methods, Electron propagator methods, Electronic structures, Ionization energies, Vibrational frequencies, 473
- Cyclic voltammetry**
 Bis(phosphino)amines, ruthenium, Octahedral complexes, Crystal structures, 587
- Cyclic voltammetry**
 Dissymmetric Schiff base, Mixed donor set, Copper complexes, X-ray structures, 1437
- Cyclic voltammetry**
 Heteropolyanion, Keggin structures, LB films, 2647
- Cyclic voltammetry**
 Rhodium complexes, Cobalt complexes, Metal–metal bonds, X-ray structure analyses, Electronic structures, 3413
- Cyclo-boratetrasiloxanes**
 B–O–Si linkages, Cyclocondensation, Lewis acidity, 3333
- 1,1-Cyclobutanedicarboxylate complexes**
 Manganese complexes, Crystal structures, IR spectra, Thermal analysis, TG-FTIR analysis, 2595
- Cyclocondensation**
Cyclo-boratetrasiloxanes, B–O–Si linkages, Lewis acidity, 3333
- Cyclodiphosphazanes**
 Pentacoordinate, X-ray structures, 843
- Cyclomercuration**
 Bisferrocenylimine, 1249
- Cyclometallation**
 Benzylamine, Palladium(II) acetate, 287
- Cyclopentadienyl**
 Lanthanides, Dications, Divalent, Amide, Protonolysis, 119
- Cyclopentadienyl**
 Osmium, Chelating ligands, Bipyridine, Phenanthroline, 1391
- Cyclopentadienyl ligands**
 Titanium, Intramolecular coordination, O ligands, P ligands, Variable-temperature NMR spectroscopy, 2885
- Cyclotriphosphazene**
 Ferrocene, Synthesis, Electrochemistry, 1237
- Cytotoxic activity**
Trans-platinum complexes, NMR, (hydroxymethyl)-Pyridine, 3379
- π -d**
 Magnetic conductors, Magnetic superconductor, Effective exchange integral, Hybrid density functional method, Jaccarino–Peter effect, 2077
- d¹ and d⁵ metal complexes**
 Magnetic properties, Jahn–Teller effect, 2545
- 1D chain**
 Arylazoimidazole, Zinc(II) complexes, Crystal structures, Hydrogen bonding, 1213
- Deamination of amino acids**
 Diorganotin(IV) complexes, Pyridoxal 5'-phosphate, Pyridoxal-pyridoxamine Schiff base, X-ray structures, Antibacterial activity, 53
- Decafluorodiphenylamido**
 Titanium, Zirconium, Vanadium, Iron, Cobalt, 153
- Decomposition**
 Oligovanadates, L-Glutamic acid, L-Glutamine, Electronic spectra, Crystal structures, 1415
- Dendrimer**
 Anion, Electrochemistry, Ferrocene, Receptor, Supramolecular, 763
- Density**
 Superconductivity, Electron-doping, HDFT, Infinite layer, Natural orbital, 2191
- Density functional calculation**
 Oxophenalenoxyl, Monoradicals, Spin topology, Spin density distribution, Molecular spin diversity, 2205
- Density functional calculation**
 Oxophenalenoxyl, Radical dianion, Redox-based spin diversity, Spin structure, Charge fluctuation, 2209
- Density functional method**
 Molecular magnetism, Organic superconductor, Effective exchange integral, Ab initio MO method, BEDT-TTF, BETS, TMTTF, TMTSF, 2051
- Density functional theory**
 Generalized spin orbital, Tetrahedral manganese clusters, Noncollinear molecular magnetism, Hybrid methods, Three-dimensional spin structure, 2013
- Density functional theory**
 1,6-Dithiapyrene, Imino nitroxide, Oxo-verdazyl, Spin structure, ESR/ENDOR/TRIPLE spectroscopy, 2219
- Density-functional calculations**
 Nanomagnets, Single-molecule magnets, Magnetic anisotropy, Spin-orbit coupling, 1871
- DFT calculation**
 Organic magnetism, Nitronyl nitroxide radical, ¹H MAS NMR, Fermi contact shift, Electron spin density distribution, 1989
- DFT calculation**
 Copper, Verdazyl, Singlet–triplet separation, 2241
- DFT calculations**
 Tricarbonyliridium(I) halide complexes, Diastereoisomers, ¹H NMR, Acetal ligands, 3371
- 2,6-Diacetylpyridine Schiff base of S-benzyl-dithiocarbazate**
 Zinc(II) and cadmium(II) complexes, Pentadentate sulfur–nitrogen ligand, 3433
- 3,5-Di-*t*-butylpyrazolyl**
 Molybdenum complexes, [pz^{Bu'}₂]Mo(P-Me₃)₄H, η^2 -Coordination, Mo(PMe₃)₆, 199
- Di-2-pyridylketone Schiff base of S-benzyl-dithiocarbazate**
 Zinc(II) and cadmium(II) complexes, Schiff bases, Dithiocarbazates, 1471
- Di-cation**
 Synthesis, Dirhenium, *Pseudo*-halides, Crystal structures, Amidato, 1281
- Dialkyldithiocarbamate ligands**
 Copper(II) complexes, Chemical vapor deposition, Volatility, Crystal structures, Thermal studies, 1575
- Diamine-bridged**
 Zinc(II) complexes, Macrocycles, Five-coordinated, Dinuclear complexes, Crystal structures, 529
- Diaryl porphyrin**
 Molecular-based magnetism, Magnetic property, Monolayer, 2281
- Diastereoisomers**
 Tricarbonyliridium(I) halide complexes, ¹H NMR, DFT calculations, Acetal ligands, 3371
- Diastereomer equilibria**
 Chiral-at-metal complexes, Configurational stability, Epimerization, X-ray structure analyses, 861
- Diazadiene**
 Diimine, Palladium, Chelate complexes, 1447
- 1,3-Diazaphenalenene**
 1,3-Diazaphenalenyl, Radical–metal complexes, X-ray structure analysis, 2215
- Diazaphenalenyl**
 Neutral radical, ¹⁵N atom, Gyromagnetic ratio, Spin structure, Columnar structure, 2199
- 1,3-Diazaphenalenyl**
 1,3-Diazaphenalenene, Radical–metal complexes, X-ray structure analysis, 2215
- Diazoketiminato species**
 2-(Arylazo)anilines, Gold(III) complex, 3109
- Dibenzotetraaza[14]annulenes**
 Alkoxy carbonylation, Macro cyclic Schiff bases, Stacking, CH···O hydrogen bonds, 3299
- Dicarboxylates**
 Copper(II) coordination compounds, Malonate ligands, Ferromagnetism, 2143
- Dicatechol**
 Crystal structure, Helicate, 643

- Dications**
 Lanthanides, Divalent, Cyclopentadienyl, Amide, Protonolysis, 119
- Dicyanamide**
 Bimetallic coordination polymers, Crystal structures, Magnetic properties, Sandwich, Template, 433
- Dicyanamide**
 Lead, Coordination polymer, Coordination mode, Double-stranded, One-dimensional, 917
- Dicyanamide complexes**
 Crystal structures, Magnetic properties, 3315
- Dicyanamido-bridged complexes**
 Crystal structures, Manganese complexes, Macroyclic ligands, Magnetic properties, 1611
- Dicyanonitrosomethane derived oximate ligands**
 Mixed valent manganese clusters, Trinuclear, Tetranuclear, Magnetism, Crystal structures, 165
- Diethyl ether**
 Metal sulfide, Molecular precursor, Annealing, 1255
- Diethylenetriamine**
 X-ray structures, Cobalt(III) complexes, Isobutylenediamine, 1603
- Difference dedicated CI**
 Ab initio calculations, CASPT2, Magnetic properties, Oxalato-bridged complexes, Hetero-bimetallic complexes, 2409
- Diffraction gratings**
 Porphyrins, Thin films, Zirconium phosphonates, 3065
- Diffuse reflectance spectra**
 Heteropolynuclear cobalt(III)-dysprosium(III) complexes, Oxalato-bridged complexes, Nitrilotriacetate complexes, X-ray structures, 1455
- Diimine**
 Diazadiene, Palladium, Chelate complexes, 1447
- Diimine ligands**
 Ruthenium(II), Tetradeinate, Syntheses, Structures, 867
- β -Diketiminate ligand**
 Synthesis, Crystal structures, Lanthanide, Samarium, Ytterbium, 441
- β -Diketiminate ligand**
 Organolanthanide complex, Ytterbium, Synthesis, Crystal structures, 1241
- β -Diketimato ligand**
 Coordination chemistry, Titanium(III), Chloride, Fluoride, 2669
- Dimalonate[C_{60}]fullerene protonation**
 Uranyl, Complexes, Stability constants, 1085
- Dimer**
 Molybdenum complexes, Benzoinoxime, Magnetic moment, Electrochemical properties, 895
- 2,5-Dimercapto-4-phenyl-1,3,4-thiodiazole**
 Organogermanium(IV), Non-bonded interaction, Crystal structures, X-ray crystallography diffraction, 2767
- Dimeric structures**
 Lanthanide nitrates, Ligand, Reaction, 1431
- Dimerization**
 Isotopic fractionation, Ion-exchange chromatography, Complex formation, Separation coefficient, Molecular vibration, 1377
- Dimethylamine**
 Tricarbonylrhenium (I) complexes, Tetramethyldiaminomethane, X-ray crystallography, 1321
- Dimethyldipicolinate complexes**
 Copper(I) complexes, Hexa-coordinate copper(I), Synthesis, Spectra, Crystal structures, 515
- Dimethylglyoximato ligands**
 Cobalt(III) complexes, Cobaloximes, Diphenylglyoximato ligands, NMR spectroscopy, Crystal structures, 2809
- 2,9-Dimethyl**
 p -Cymene, Hexamethylbenzene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 4,7-Diphenyl-10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- 2,2-Dimethylpentanedioic acid**
 Manganese(II) complexes, 3,3-Dimethylpentanedioic acid, 2,2'-Bipyridine, 1,10-Phenanthroline, Crystal structure, Anti-*Candida* activity, 3187
- 3,3-Dimethylpentanedioic acid**
 Manganese(II) complexes, 2,2-Dimethylpentanedioic acid, 2,2'-Bipyridine, 1,10-Phenanthroline, Crystal structure, Anti-*Candida* activity, 3187
- 3,5-Dimethylpyrazole**
 Rhodium, Pentafluorophenylthiolate, Mercury, Crystal structures, 3293
- Dimethylsulfoxide**
 Tenoxicam, Meloxicam, X-ray diffraction, 1355
- 3,5-dimethyl-tetrahydro-2H-1,3,5-thiadiazine-2-thione**
 Pesticides, Antiprotooans, 1689
- Dinickel(II) complexes**
 Crystal structure, Tetranuclear nickel (II) complexes, Compartmental ligands, 75
- Dinitrogen trioxide**
 Nitrosation, Amino acid, Spectrophotometry, 1059
- π -d interaction**
 Molecular conductor, Molecular magnet, Magnetoresistance, Weak ferromagnetism, Magnetic anisotropy, 2227
- Dinuclear Co(III)-Pd(II) and Co(III)-Pt(II) complexes**
 Optically active sulfur-bridged complexes, 2,2'-Bipyridine complexes, Crystal structures, Spectrochemistry, 1507
- Dinuclear complexes**
 Zinc(II) complexes, Macrocycles, Five-coordinated, Diamine-bridged, Crystal structures, 529
- Dinuclear complexes**
 Synthesis, Equilibria, Polyamines, Phenol, Crystal structure, 1135
- Dinuclear structure**
 Triazene, Triazenede, Copper(I) complex, Silver(I) complex, 563
- Diorganotin(IV) complexes**
 Deamination of amino acids, Pyridoxal 5'-phosphate, Pyridoxal-pyridoxamine Schiff base, X-ray structures, Antibacterial activity, 53
- Dipeptides**
 β -Alanine, Tripeptides, Nickel(II), Palladium(II), Stability constants, 2607
- Diphenylglyoximato ligands**
 Cobalt(III) complexes, Cobaloximes, Dimethylglyoximato ligands, NMR spectroscopy, Crystal structures, 2809
- 4,7-Diphenyl-1**
 p -Cymene, Hexamethylbenzene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 4,7-Diphenyl-10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- Diphosphine complexes**
 Nickel complexes, Molecular structures, Crystal packing, 1567
- Diphosphine disulfide**, 1659
- Diphosphines**
 Copper(I), Perfluorinated carboxylates, NMR, MS, 3389
- Diphosphino ligands**
 Chalcogens, Pyridine, Tin(IV), X-ray crystallography, 1585
- Dipolar interactions**
 Molecular magnetism, Ferromagnetism, Ac susceptibility, High pressure, 3339
- Dipyridinated manganese(II) phthalocyanine**
 Crystal structures, Magnetic properties, Antiferromagnetic interactions, Oxidation, UV-Vis spectroscopy, 2689
- Direct synthesis**
 Copper complexes, Template synthesis, Schiff-base, Oxaaza macrocycles, 1701
- Dirhenium**
 Synthesis, *Pseudo*-halides, Crystal structures, Di-cation, Amidato, 1281
- Dirhenium complexes**
 Metal-metal multiple bonds, Crystal structures, Face-sharing bioctahedral complexes, Thiolate ligands, Phosphine ligands, 2625
- Diselenocarbamate**
 Iron, Dithiocarbamate, Thioselenocarbamate, Nitrosyl, ^{13}C NMR, ^{15}N NMR, 3423
- Dissolution in ammonia**
 Europium, Ytterbium, MVS, Aryloxides, 1425
- Dissymmetric Schiff base**
 Mixed donor set, Copper complexes, X-ray structures, Cyclic voltammetry, 1437
- 1,6-Dithiapyrene**
 Imino nitroxide, Oxoverdazyl, Spin structure, Density functional theory, ESR/ENDOR/TRIPLE spectroscopy, 2219
- Dithiocarbamate**
 Praseodymium complexes, Lanthanide, 2,2'-Bipyridine, Thiocyanate, Chloride, Nitrate, Crystal structures, 347

- Dithiocarbamate
Iron, Diselenocarbamate, Thioselenocarbamate, Nitrosyl, ^{13}C NMR, ^{15}N NMR, 3423
- Dithiocarbazates
Zinc(II) and cadmium(II) complexes, Di-2-pyridylketone Schiff base of *S*-benzyl-dithiocarbazate, Schiff bases, 1471
- Dithiocarbamate complexes
Nickel complexes, Sulfonamide, Crystal structure, 1561
- Dithiocarbimates
Zinc complexes, Crystal structure, NMR, IR-spectroscopy, 3355
- Dithiolate complexes
Ruthenium clusters, Protonation, X-ray structures, 633
- Dithiolates
Gold(III) complexes, Crystallographic studies, Magnetic properties, Electrical transport properties, Charge-transfer salts, 2447
- Dithiylene complexes
Metal complexes, Metallocene, Ferromagnetism, 2339
- Dithiophosphates
Nickel(II), Syntheses, X-ray structures, 1341
- Divalent
Lanthanides, Dications, Cyclopentadienyl, Amide, Protonolysis, 119
- Divalent europium
Lanthanides, Crown ethers, Structures, Luminescence, 337
- Divalent europium
Lanthanides, Nitrilotriacetate, Structures, Spectroscopy, 2761
- DNA
Chromium picolinate, 8-OHdG, Lipid peroxidation, Rats, 455
- DNA interactions
Pd(II) and Pt(II) complexes, Pt(I) complexes, 2,2'-Biimidazole, *N,N'*-Dimethyl-2,2'-biimidazole, Crystal structure, Solvolysis by DMSO, 1113
- 2D NMR
Cobalt(III) isomers, C–H $\cdots\pi$ Interaction, X-ray crystal structures, Energy minimisation, 3467
- Dodecahedral geometry
Tantalum, Bicyclic guanidinate, Intermolecular hydrogen bonds, Coordination isomer, 2731
- Doping effect
Verdazyl radical, Spin-Peierls transition, Heat capacity, Magnetism, Antiferromagnetic order, High-field magnetization, 2091
- Double betaine
Carboxylate, Coordination network, Transition metal, 811
- Double betaine
Carboxylate, Coordination network, Lanthanide salt, 2787
- Double exchange
Exchange interaction, Magnetic anisotropy, Mixed-valence compounds, 2521
- Double-exchange mechanism
High-spin organic polymer, Spin-polarized nano-wire, Quantum chemical calculations, 1829
- Double-helix
2,2'-Bipyridine, Cadmium(II) complex, Isophthalate, Polymeric tubes, Zinc(II) complex, 1231
- Double-stranded
Lead, Dicyanamide, Coordination polymer, Coordination mode, One-dimensional, 917
- Drosophila melanogaster*
Copper(II)-Schiff base complexes, *N*-Salsilylidene derivative, X-ray structures, Ternary copper(II) complexes, Toxicity of copper(II) complexes, 403
- Effective exchange integral
Ab initio MO calculation, Hybrid-DFT, Organomagnetic conductors, Electronic structure, 2039
- Effective exchange integral
Molecular magnetism, Organic superconductor, Ab initio MO method, Density functional method, BEDT-TTF, BETS, TMTTF, TMTSF, 2051
- Effective exchange integral
Bis(9-(10-phenyl)anthryl)carbene, Polycarbene, Ab initio method, AO-fitting, AO-approach, 2067
- Effective exchange integrals
One-dimensional (1D) metal chain complexes, Magnetic effective density functional, MEDF, 2019
- Effective exchange interaction
Hybrid density functional theory, MMX, Ni₂(dta)₄I, 2027
- Effective exchange integral
Magnetic conductors, Magnetic superconductor, π -d, Hybrid density functional method, Jaccarino–Peter effect, 2077
- EHMO
Naphthylazoimidazoles, Copper(I) complexes, X-ray structures, Electrochemistry, 247
- EHMO
Arylazoimidazoles, 1,10-Phenanthroline, Ruthenium(II) complexes, Electrochemistry, X-ray structures, 849
- EHMO calculations
Polyoxotungstate, ^{183}W and ^{17}O NMR shifts, 1183
- Eight-membered chelate rings
Bis(2-pyridylthio)methane, Cadmium(II) complexes, X-ray diffraction, Cadmium(II) halides, NMR spectroscopy, 1077
- Electrical conductivities
Crystal structures, Charge transfer transitions, Fluorescence spectroscopies, Molar conductances, 3547
- Electrical conductivity
Tetrathiafulvalenes, Metal bis-dithiylene complexes, Magnetism, X-ray crystal structures, 2415
- Electrical transport properties
Dithiolates, Gold(III) complexes, Crystallographic studies, Magnetic properties, Charge-transfer salts, 2447
- Electrochemical methods
Oligoarylamines, Coupling reactions, UV–Vis absorption, Charged high-spin systems, Organic mixed-valence system, 2003
- Electrochemical properties
Molybdenum complexes, Benzoinoxime, Dimer, Magnetic moment, 895
- Electrochemical properties
Macrocyclic copper(II) complexes, Tricompartmental ligands, Magnetic properties, Catalytic activity, 3483
- Electrochemical sensing
Anion binding, Urea, 649
- Electrochemical sensor
Anion binding, Pyrrole, Ferrocene, Self-assembly, 699
- Electrochemical synthesis
Zinc complexes, Sulfonamide ligands, Crystal structures, 1099
- Electrochemical synthesis
2-Aminopyridine, Methanol, Schiff base, 1335
- Electrochemistry
Naphthylazoimidazoles, Copper(I) complexes, X-ray structures, EHMO, 247
- Electrochemistry
Anion, Dendrimer, Ferrocene, Receptor, Supramolecular, 763
- Electrochemistry
Arylazoimidazoles, 1,10-Phenanthroline, Ruthenium(II) complexes, X-ray structures, EHMO, 849
- Electrochemistry
Binucleating ligand, Nickel(II) complexes, 989
- Electrochemistry
Ferrocene, Cyclotriphosphazene, Synthesis, 1237
- Electrochemistry
Binuclear copper(II) complexes, Macroyclic ligands, Magnetochemistry, Catalytic activity, 1407
- Electrochemistry
Radical, Second-order, NLO, HRS, 1851
- Electrochemistry
Ni dithiolenes, Se-donors, Raman, X-ray, 2175
- Electrochemistry
Porphyrazines, Phthalocyanines, Magnesium, Copper, Zinc, 3083
- Electrochemical studies
Tetraphenylporphyrins, Tetranaphthylporphyrins, Octabromoporphyrins, Zn(II) porphyrins, Electronic properties, Fluorescence properties, 3145
- Electron paramagnetic resonance
Single molecule magnets, Nanomagnet, Quantum tunneling, Manganese, 1889
- Electron paramagnetic resonance
Single molecule magnets, Nanomagnet, Quantum tunneling, Manganese, 1897
- Electron paramagnetic resonance
Single-molecule magnets, Nanomagnet, Quantum tunneling, Manganese, 1911

- Electron propagator methods
Ab-initio methods, Cyclic phosphazines, Electronic structures, Ionization energies, Vibrational frequencies, 473
- Electron spin density distribution
Organic magnetism, Nitronyl nitroxide radical, ^1H MAS NMR, Fermi contact shift, DFT calculation, 1989
- Electron spin resonance
Single-component organic ferrimagnet, Magnetic susceptibility, Nitronyl nitroxide, Perturbation treatment, Triradical, 1809
- Electron spin resonance
Organic ferrimagnet, Nitronyl nitroxide, Magnetic susceptibility, Charged biradical, Supramolecular crystal engineering, 1817
- Electron transfer
Benzotriazole, Intervalence charge-transfer, Mixed-valence, Ruthenium-polypyridine, 1303
- Electron transfer
Keggan anion, Coulombic repulsion, Ab initio calculation, Magnetic coupling, 2331
- Electron transfer
Photochromic effect, Metastable states, Pseudo-Jahn-Teller effect, 2527
- Electron-doping
Superconductivity, HDFT, Infinite layer, Natural orbital, Density, 2191
- Electron-pair repulsion
Polarizing molecular mechanics, Iron-porphyrin complex, Heme charge, Oxygen fixation, CO/O₂ discrimination, 1091
- Electronic absorption spectra
 Co^{II} -edta-type complexes, Crystal packing, 2745
- Electronic properties
Tetratolyloporphyrins, Tetranaphthylporphyrins, Octabromoporphyrins, Zn(II) porphyrins, Fluorescence properties, Electrochemical studies, 3145
- Electronic spectra
Titania, Photocatalyst, Stearic acid, 35
- Electronic spectra
Cobalt(II) complexes, Schiff base, Salicylideneaniline, Solutions, Ligand-field parameters, Chromaticity, Solvatochromism, 997
- Electronic spectra
Oligovanadates, L-Glutamic acid, L-Glutamine, Decomposition, Crystal structures, 1415
- Electronic spectra
Thiosemicarbazone, Copper(II), IR spectra, EPR, X-ray crystal structure, 3321
- Electronic structure
Tungsten alkylidyne, Molybdenum alkylidyne, Frontier molecular orbitals, Alkoxide, Thiolate, 145
- Electronic structure
Ab initio MO calculation, Hybrid-DFT, Organomagnetic conductors, Effective exchange integral, 2039
- Electronic structures
Ab-initio methods, Cyclic phosphazines, Electron propagator methods, Ionization energies, Vibrational frequencies, 473
- Electronic structures
Rhenium, Nitrosyl, Oxo, Bipyridine, X-ray structures, 2573
- Electronic structures
Rhenium, Organodiazenido, X-ray structures, 3307
- Electronic structures
MP2 method, Geometry optimization, Cyclic phosphazenes, Stable non-planar conformations, 3243
- Electronic structures
Rhodium complexes, Cobalt complexes, Metal-metal bonds, X-ray structure analyses, Cyclic voltammetry, 3413
- Electrospray mass spectroscopy
Organotin(IV), Bis(imidazolyl)borate ligand, Tin-119 NMR, 499
- Emission intensity
Anion, Receptor, Complexes, Ruthenium, 775
- Encapsulating ligand
Iron(II), Low-spin, π -Acceptor, Thiaether, 45
- End-on azido ligand complex
Binuclear nickel(II) complex, Crystal structure, Magnetic properties, Terminal azido ion complex, Hexadentate ligand, 257
- Energy conversion
Mixed-valence, Ruthenium complexes, Rhenium complexes, Intramolecular electron transfer, 369
- Energy conversion
Mixed-valence, Ruthenium complexes, Intramolecular electron transfer, Inverted region, Reorganization energies, 465
- Energy minimisation
Sym-fac-[Co(bpm)(bipy)Cl]²⁺ isomer, Isomer preference, Cobalt(III) complexes, Crystal structures, 263
- Energy minimisation
Cobalt(III) isomers, C-H \cdots π Interaction, X-ray crystal structures, 2D NMR, 2467
- Energy-dispersive X-ray analysis
Atmospheric pressure chemical vapour deposition, TiS₂, 1263
- EO azido bridged complexes
Arylazimidazoles, Cobalt(II) complexes, X-ray structures, 2587
- Epimerization
Chiral-at-metal complexes, Configurational stability, Diastereomer equilibria, X-ray structure analyses, 861
- Epimerization
Chiral-at-metal complexes, Rhodium, Configurational stability, X-ray structure analyses, 2639
- Epoxidation
Manganese, Biaryl, Schiff-base, Chiral-at-metal, 1617
- EPR
Copper(II), Thiodiglycolic acid complexes, Crystal structures, Magnetic properties, 411
- EPR
Thiosemicarbazone, Copper(II), Electronic spectra, IR spectra, X-ray crystal structure, 3321
- EPR radicals
Terpyridine, Organic based magnets, Open-shell molecules, Nitronyl nitroxide, Semiempirical (AM1) calculations, 2099
- EPR spectra
Imidazole-4-acetic acid, Cobalt(II) complexes, Manganese(II) complexes, X-ray structure, Absorption spectra, 3123
- Equilibria
Synthesis, Dinuclear complexes, Polyamines, Phenol, Crystal structure, 1135
- ESR
Ferromagnetic interaction, Nitroxide, Ligand, Free radical, 2557
- ESR magnetic susceptibility
Cu,Zn-SOD model, Crystal structures, SOD-like activity, 925
- ESR/ENDOR/TRIPLE spectroscopy
1,6-Dithiapyrene, Imino nitroxide, Oxoverdazyl, Spin structure, Density functional theory, 2219
- Ethylene polymerization
Palladium, Pyridylimine, Pyridyl-2-methanimine, HDPE, Polyethylene, 2855
- Europium
Ytterbium, MVS, Dissolution in ammonia, Aryloxides, 1425
- Europium complex
X-ray crystallography, Photophysical property, 1,10-Phenanthroline, Succinamic acid, 323
- Europium organic complexes
Crystal structures, Luminescence, Lifetime, Synthesis, 2719
- EXAFS
Molybdenum, Rhodium, Polyoxometalate, Organometallic chemistry, 1157
- EXAFS spectroscopy
Ruthenium, N ligand, Bridging ligands, Heterometallic complexes, 2799
- Exchange coupling
Molecular magnets, Copper(II), Nitroxide, Imidazole, 1957
- Exchange coupling
Biradicals, Heterospin, Spin diverse, 2423
- Exchange interaction
Magnetic behavior, Copper(II) complexes, Iminonitroxide, 1803
- Exchange interaction
Double exchange, Magnetic anisotropy, Mixed-valence compounds, 2521
- Exchange interactions
Organic ferromagnet, Pressure effect, Curie temperature, Biradical, 2287
- Extended structures
Cobalt complexes, Manganese complexes, Copper complexes, 4,4'-Bipyridine-N,N'-dioxide, 789

- Face-sharing bioctahedral complexes
Dirhenium complexes, Metal–metal multiple bonds, Crystal structures, Thiolate ligands, Phosphine ligands, 2625
- Fe complex
Canted antiferromagnet, Molecular magnet, High pressure, Compressibility, Bulk modulus, 2139
- Fe–Bisdithiolene complexes
Magnetic susceptibility, Mössbauer spectroscopy, X-ray crystal structures, 2481
- Fe8
Nuclear magnetic resonance, Quantum tunneling, 2277
- [Fe(ptz)₆(BF₄)₄]
Polarised neutron diffraction, Light-induced excited spin state trapping, Spin density, 2155
- Fermi contact shift
Organic magnetism, Nitronyl nitroxide radical, ¹H MAS NMR, Electron spin density distribution, DFT calculation, 1989
- Ferrimagnet
Weak-ferromagnetism, Molecular based magnet, Transition metal complex, Crown thioether, Benzene dithiolate, 1755
- Ferrocene
Anion binding, Pyrrole, Self-assembly, Electrochemical sensor, 699
- Ferrocene
Anion, Dendrimer, Electrochemistry, Receptor, Supramolecular, 763
- Ferrocene
Cyclotriphosphazene, Synthesis, Electrochemistry, 1237
- Ferromagnetic behavior
Complexed ligand, $\kappa^2N:\kappa^3N$ Bridging fashion, Local C_2 symmetry, 1789
- Ferromagnetic interaction
Supramolecule, Channel, Nitroxide, Ligand, Free radical, 2133
- Ferromagnetic interaction
Nitroxide, Ligand, Free radical, ESR, 2557
- Ferromagnetism
Copper(II) coordination compounds, Malonate ligands, Dicarboxylates, 2143
- Ferromagnetism
Metal complexes, Metallocene, Dithiolene complexes, 2339
- Ferromagnetism
Molecular magnetism, Dipolar interactions, Ac susceptibility, High pressure, 3339
- Field-induced excitation gap
¹³C NMR, Quantum spin chain, $S=1/2$ antiferromagnet, Cu complex, Molecular magnet, 2273
- First-principles calculation
Itinerant ferromagnetism, Organic polymer, Flat band, Polyaminotriazole, Molecular crystal, 1883
- Five-coordinated
Zinc(II) complexes, Macrocycles, Diamine-bridged, Dinuclear complexes, Crystal structures, 529
- Flat band
Itinerant ferromagnetism, Organic polymer, Polyaminotriazole, Molecular crystal, First-principles calculation, 1883
- Fluorescence
Syntheses, Crystal structures, Zinc complexes, Polynitrile ligands, 493
- Fluorescence properties
Tetratolyloporphyrins, Tetranaphthylporphyrins, Octabromoporphyrins, Zn(II) porphyrins, Electronic properties, Electrochemical studies, 3145
- Fluorescence spectroscopies
Electrical conductivities, Crystal structures, Charge transfer transitions, Molar conductances, 3547
- Fluoride
Praseodymium, Neodymium, X-ray structure, Titanium, 575
- Fluoride
Coordination chemistry, β -Diketiminato ligand, Titanium(III), Chloride, 2669
- Formaldehyde
Mannich, Copper(II) complexes, α -Amino acids, Acetamide, 521
- Formation
Kinetics, Adduct, Transmetalation, Heteropolymetallic, Target, 2917
- Fractal cluster
Organic-based magnet, Spin glass, Tetra-cyanoethylene, Low-dimensional magnetism, Susceptibility, 1751
- Framework
Carboxylate, Cobalt, Iron, Magnetism, Manganese, Pyromellitate, 1921
- Framework materials
Cadmium, Cadmium halides, Coordination polymers, Hydrothermal synthesis, 3043
- Free radical
Ferromagnetic interaction, Supramolecule, Channel, Nitroxide, Ligand, 2133
- Free radical
Ferromagnetic interaction, Nitroxide, Ligand, ESR, 2557
- Frontier molecular orbitals
Tungsten alkylidyne, Molybdenum alkylidyne, Electronic structure, Alkoxide, Thiolate, 145
- FT-IR spectroscopy
Organotin compounds, Aryltin compounds, NMR spectroscopy, X-ray crystal structure, 3523
- Fullerene
Molecular complexes, Magnetic properties, Anomalous paramagnetic centers, 2009
- Gadolinium
Copper, Trinuclear complex, Magnetic property, Crystal structure, 1905
- Gallium
Amide, Chloride, Ligand exchange, Titanium, 9
- Gas sensing
Clusters, Ruthenium, Sensors, ArgoGel resins, Supported transition metals, 3
- Generalized spin orbital
Density functional theory, Tetrahedral manganese clusters, Noncollinear molecular magnetism, Hybrid methods, Three-dimensional spin structure, 2013
- Germanium
Phosphide, Thinfilm, APCVD, 1683
- Geometry optimisation
Boranes, Heteroboranes, NMR spectroscopy, GIAO, 3541
- Geometry optimization
MP2 method, Cyclic phosphazenes, Stable non-planar conformations, Electronic structures, 3243
- Geometry optimizations
Lead(II) clusters, Hydroxo-complexes, Molecular structures, 2863
- GIAO
Boranes, Heteroboranes, NMR spectroscopy, Geometry optimization, 3541
- GIXD
Magnetic thin film, Metal cyanide square grid, Langmuir–Boldgett, 3059
- Glutathione
Palladium(II), L-Cysteine, Sodium dodecyl sulfate, Complex formation, Micellar catalysis, 279
- Glycine
Supramolecular architecture, Lanthanide, 1,10-Phenanthroline, Coordination compound, Non-covalent interactions, 2617
- Glycine–alanine
2-Hydroxypropyl *p*-nitrophenyl phosphate, Benzyl alanine esters, Lanthanide complexes, 711
- Gold(I) complexes
X-ray structures, Thiourea, 1349
- Gold(III) complex
2-(Arylazo)anilines, Diazoketiminato species, 3109
- Gold(III) complexes
Dithiolates, Crystallographic studies, Magnetic properties, Electrical transport properties, Charge-transfer salts, 2447
- Grafting
Lanthanum, X-ray structures, Alkoxides, Triflate, 127
- Group 15
Stibine, Arsine, Synthesis, X-ray structures, π -Stacking, 211
- Guanidino–carboxylate interactions
Guanidinoacetic acid, Ternary complexes, Stability constants, Potentiometry, Copper(II), 225
- Guanidinoacetic acid
Guanidino–carboxylate interactions, Ternary complexes, Stability constants, Potentiometry, Copper(II), 225
- Guanidinobenzimidazole derivatives
Supramolecular, X-ray structure, Nickel (II), 735
- Gyromagnetic ratio
Neutral radical, Diazaphenalenyl, ¹⁵N atom, Spin structure, Columnar structure, 2199

- H-bonding
Naphylazoimidazole, Coordination compounds, Organomercuration, X-ray structure, 1367
- Hammett substituent constants
Salen Cu(II) complexes, Schiff-base ligands, Catalytic epoxidation, Iodosylbenzene, Styrene, 1653
- HDFT
Superconductivity, Electron-doping, Infinite layer, Natural orbital, Density, 2191
- HDPE
Palladium, Pyridylimine, Pyridyl-2-methanimine, Ethylene polymerization, Polyethylene, 2855
- Heat capacity
Verdazyl radical, Spin-Peierls transition, Magnetism, Doping effect, Antiferromagnetic order, High-field magnetization, 2091
- Helicate
Crystal structure, Diccatechol, 643
- Helicate
Pyridyl, Crystallography, Hexadentate, Ligand, 755
- Heme charge
Electron-pair repulsion, Polarizing molecular mechanics, Iron-porphyrin complex, Oxygen fixation, CO/O₂ discrimination, 1091
- Heme-oxygenase
Hydroperoxo-iron(III) species, Oxygen atom transfer reaction, Spin-state of iron(III) ion, 293
- Hemi-labile
Co-ordination chemistry, Platinum, Catalysis, Phosphines, Chelate ligands, 19
- HETCOR
Zn(II) complexes, Purine, ¹⁵N NMR, CPMAS, Coordination shift, 391
- Hetero-bimetallic complexes
Ab initio calculations, CASPT2, Difference dedicated CI, Magnetic properties, Oxalato-bridged complexes, 2409
- Heterobinuclear complexes
Oxamido-bridged, Spin-doublet ground state, Homotrinuclear nickel(II) complexes, Supramolecular structures, 2911
- Heteroboranes
Boranes, NMR spectroscopy, Geometry optimisation, GIAO, 3541
- Heterometallic complexes
Ruthenium, N ligand, Bridging ligands, EXAFS spectroscopy, 2799
- Heteropolyanion
Crystal structures, Polyoxometalate, Phosphotungstate, NMR, 933
- Heteropolyanion
Keggin structures, LB films, Cyclic voltammetry, 2647
- Heteropolymetallic
Kinetics, Adduct, Transmetalation, Target, Formation, 2917
- Heteropolymetallic complexes
Schiff bases, Uranyl ions, Crystal structures, 2683
- Heteropolynuclear cobalt(III)-dysprosium(III) complexes
Oxalato-bridged complexes, Nitritotriacetate complexes, X-ray structures, Diffuse reflectance spectra, 1455
- Heteropolyoxometalates
Redox process, Spectroscopy, 2901
- Heterospin
Biradicals, Exchange coupling, Spin diverse, 2423
- Heterotrinuclear complexes
μ-Oxalato-bridge, Copper(II), Chromium(III), Iron(III), Magnetism, 3223
- Hexa-coordinate copper(I)
Copper(I) complexes, Dimethylpicolinato complexes, Synthesis, Spectra, Crystal structures, 515
- Hexaaazacyclohexadecane
Nickel complexes, Macroyclic complexes, Template synthesis, 2633
- Hexacyanometalates
Molecular magnetism, Trinuclear cyanocomplexes, Intermolecular interactions, 2427
- Hexadentate
Pyridyl, Crystallography, Ligand, Helicate, 755
- Hexadentate ligand
Binuclear nickel(II) complex, Crystal structure, Magnetic properties, End-on azido ligand complex, Terminal azido ion complex, 257
- Hexamethylbenzene
p-Cymene, *N*-(2-pyridinylmethylene)phenylamines, *N*-(2-pyridinylmethylene)cyclohexylamine, Schiff base, Ruthenium, 605
- Hexamethylbenzene
p-Cymene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1, 10-Phenanthroline, 2,3-Bis(*α*-pyridyl)-quinoxaline, 3155
- Hexamethylenetetramine
Coordination polymers, Cadmium(II), Terephthalate, Thiocyanate, 2933
- Hg(II) complexes
Arylazoimidazole, Azopyrimidine, Crystal structures, 1205
- High pressure
Canted antiferromagnet, Fe complex, Molecular magnet, Compressibility, Bulk modulus, 2139
- High pressure
Molecular magnetism, Metamagnetism, Canted antiferromagnetism, a.c. susceptibility, 2249
- High pressure
Molecular magnetism, Ferromagnetism, Dipolar interactions, Ac susceptibility, 3339
- High-field magnetization
Verdazyl radical, Spin-Peierls transition, Heat capacity, Magnetism, Doping effect, Antiferromagnetic order, 2091
- High-spin organic polymer
Double-exchange mechanism, Spin-polarized nano-wire, Quantum chemical calculations, 1829
- High-spin polymer
Conjugated polymer, Polyradical, Phenoxyl, Poly(aryleneethynylene), Anthracene, 1845
- ¹H MAS NMR
Organic magnetism, Nitronyl nitroxide radical, Fermi contact shift, Electron spin density distribution, DFT calculation, 1989
- ¹H NMR
Tricarbonylrhenium(I) halide complexes, Diastereoisomers, DFT calculations, Acetal ligands, 3371
- Homooxacalixarenes
Uranyl ion, Calixarenes, Clusters, Crystal structures, 3499
- Homotrinuclear nickel(II) complexes
Oxamido-bridged, Heterobinuclear complexes, Spin-doublet ground state, Supramolecular structures, 2911
- Homooxacalixarenes
Uranyl ion, Calixarenes, Clusters, Crystal structures, 3499
- Host-guest systems
MCM-41, Mesoporous materials, Single-molecule magnets, Magnetic properties, Mn clusters, 2395
- HRS
Radical, Second-order, NLO, Electrochemistry, 1851
- Hybrid density functional method
Magnetic conductors, Magnetic superconductor, π-d, Effective exchange integral, Jaccarino-Peter effect, 2077
- Hybrid density functional theory
MMX, Ni₂(dta)4I, Effective exchange interaction, 2027
- Hybrid methods
Generalized spin orbital, Density functional theory, Tetrahedral manganese clusters, Noncollinear molecular magnetism, Three-dimensional spin structure, 2013
- Hybrid-DFT
Ab initio MO calculation, Organomagnetic conductors, Electronic structure, Effective exchange integral, 2039
- Hydration
2,6-bis(pyrazol-3-yl)pyridine, Thermal spin transition, Transition temperature, 2375
- Hydrazine
Hydrogen, Bonding, Structures, 1397
- Hydride
Aluminium, Thiolate, 2655
- Hydro(solvo)thermal synthesis
Coordination polymer, Cobalt oxydiacetate, Topological isomerism, Interconversion, Self-assembly, 2953
- Hydrogen
Hydrazine, Bonding, Structures, 1397
- Hydrogen bonded coordination complexes
Lanthanide(III) complexes, *N,N'*-dimethylurea metal complexes, Spectroscopic characterisation, X-ray crystal structures, 825

- Hydrogen bonding**
 Crystal engineering, Zinc, Carboxylates, X-ray crystal structures, 673
- Hydrogen bonding**
 Interaction, Proton, Intramolecular, 769
- Hydrogen bonding**
 $\text{CH}\cdots\text{O}$ bonding, $\text{CH}\cdots\text{N}$ bonding, $\text{CH}\cdots\text{Cl}$ bonding, Poly(pyrazolyl)borate ligands modified, Supramolecular interactions, 1123
- Hydrogen bonding**
 Arylazimidazole, Zinc(II) complexes, Crystal structures, 1D chain, 1213
- Hydrogen bonding**
 Metalla-macrocycles, Templating agents, Palladium and nickel complexes, Triphenylphosphine, Anion template, 2991
- Hydrogen bonding**
 Coordination chemistry, Schiff bases, Cd compounds, X-ray structure determination, Reversible absorption and desorption of water, 3451
- Hydrogen bonding**
 1,2-Bis(4-pyridinecarboxamido)ethane, Copper (II) complexes, X-ray structures, Coordination polymers, Supramolecular isomers, 3493
- Hydrogen bonds**
 Supramolecular chemistry, Self-assemblies, Solid state structures, Pyrroles, Molecular recognition, 2963
- Hydrogen bonds**
 Manganese(IV) complex, Cobalt(III) complex, Crystal structure, Magnetic moment, 3515
- Hydrogen sulfide**
 Nitrilotriacetate, Iminodiacetate, Iron, Crystal structures, 941
- Hydrogen-bond**
 Molecular magnetism, Supramolecular, Carboxylate, Radical, Co(II) complexes, 1929
- Hydrogen-bonded sheets**
 Manganese(III), Carboxylate chain structures, Metamagnetism, Crystal structures, 2161
- Hydroperoxy-iron(III) species**
 Oxygen atom transfer reaction, Spin-state of iron(III) ion, Heme-oxygenase, 293
- Hydroquinone**
 $\text{Mn}^{\text{III}}\text{-Schiff base complex}$, Crystal structures, Redox activity, Catechol, 1191
- Hydrothermal**
 Lead soaps, Palmitic acid, Stearic acid, Red lead, Lead-tin yellow, 3171
- Hydrothermal reaction**
 Crystal structure, Succinate, Bipy, Open-framework, 3097
- Hydrothermal reactions**
 Octamolybdate subunits, Hydrothermal synthesis, Mixed metal oxides, 177
- Hydrothermal synthesis**
 Octamolybdate subunits, Mixed metal oxides, Hydrothermal reactions, 177
- Hydrothermal synthesis**
 Neodymium complexes, X-ray crystallography, IR, TGA, Supramolecular structures, 981
- Hydrothermal synthesis**
 Cobalt cluster, Magnetic properties, Crystal structures, MCD, 1917
- Hydrothermal synthesis**
 Cadmium, Cadmium halides, Coordination polymers, Framework materials, 3043
- Hydroxo-complexes**
 Lead(II) clusters, Molecular structures, Geometry optimizations, 2863
- Hydroxyacetophenone**
 Thiosemicarbazone, Copper, Nickel, Crystal structures, Metal(II) complexes, 2831
- 2-Hydroxynicotinic acid**
 Lanthanide complexes, Luminescence, Crystal structures, 3529
- (hydroxymethyl)-Pyridine**
 Trans-platinum complexes, Cytotoxic activity, NMR, 3379
- 4-Hydroxypyrimidine**
 Nanoporous material, N,N' -exobidentate mode, Crystal sponge, 3051
- 2-Hydroxypropyl *p*-nitrophenyl phosphate**
 Glycine-alanine, Benzyl alanine esters, Lanthanide complexes, 711
- Hyperfine coupling of CN ions**
 Prussian-blue analogs, Local magnetic structures, Solid-state ^{13}C NMR, Solid-state high-resolution deuterium NMR, Crystal water molecules, 1981
- Hyperfine coupling of OD[−] ions**
 Layer-structured basic copper compound, Local magnetic structures, Local magnetic interactions, Solid-state high-resolution deuterium NMR, 1995
- Hysteresis**
 Single-molecule magnets, Jahn-Teller isomers, Quantum tunneling of magnetization, 1783
- Hysteresis**
 Mn clusters, Quantum tunneling, Single-molecule magnets, 2267
- Imidazole**
 Copper(II) complexes, Iminodiacetate, Bipyridine, Crystal structure, Aromatic π,π -stacking, 1027
- Imidazole**
 Molecular magnets, Copper(II), Nitroxide, Exchange coupling, 1957
- Imidazole ligands**
 Polyoxometallates, Octamolybdates, Keggin-type anions, Copper, 3091
- Imidazole-4-acetic acid**
 Cobalt(II) complexes, Manganese(II) complexes, X-ray structure, Absorption spectra, EPR spectra, 3123
- Imidodiphosphinato ligands**
 Antimony(V) compounds, Crystal structure, 3395
- Imine ligands**
 Platinum, Chiral compounds, Oxidative addition, Steric effects, Crystal structure, 3363
- Imino nitroxide**
 1,6-Dithiapyrene, Oxoverdazyl, Spin structure, Density functional theory, ESR/ENDOR/TRIPLE spectroscopy, 2219
- Imino nitroxide**
 Nitronyl nitroxide, Cu(II) complexes, Molecular magnets, 2499
- Iminodiacetate**
 Nitrilotriacetate, Iron, Hydrogen sulfide, Crystal structures, 941
- Iminodiacetate**
 Copper(II) complexes, Imidazole, Bipyridine, Crystal structure, Aromatic π,π -stacking, 1027
- Iminonitroxide**
 Magnetic behavior, Exchange interaction, Copper(II) complexes, 1803
- Inclusion compounds**
 Octakis(2-pyridyloxy)cyclotetraphosphazene, Octakis(4-methyl-2-pyridyloxy)cyclotetraphosphazene, X-ray structures, 189
- Inclusion compounds**
 Coordination polymer, Noncentrosymmetric structures, Metal-organic framework, Rectangular grid, Bifunctional ligand, 235
- Indenyl**
 Pentamethylcyclopentadienyl, Ruthenium, Molecular structures, Bipyridine, Phenanthroline, 307
- Indium *meso*-tetra-(p-bromophenyl)porphyrin**
 Crystal structures, Thallium *meso*-tetra-(p-chlorophenyl)porphyrin, Indium *meso*-tetra-(p-chlorophenyl)porphyrin, 1633
- Indium *meso*-tetra-(p-chlorophenyl)porphyrin**
 Crystal structures, Thallium *meso*-tetra-(p-chlorophenyl)porphyrin, Indium *meso*-tetra-(p-bromophenyl)porphyrin, 1633
- Indole-2-carboxylic acid**
 Ternary manganese(II) complexes, 1,10-Phenanthroline, Neocuproine, Crystal structures, IR, Catalytic activity, 1461
- Inelastic neutron scattering**
 Tetranuclear cluster, Magnetic anisotropy, Susceptibility, Magnetic frustration, 2471
- Infinite layer**
 Superconductivity, Electron-doping, HDFT, Natural orbital, Density, 2191
- Insertion**
 Palladium complexes, Sulfur dioxide, Crystal structures, 805
- Insulin-mimics**
 VO(IV) complexes, Picolinic acid derivatives, X-ray crystallography, Speciations, 27
- Interaction**
 Hydrogen bonding, Proton, Intramolecular, 769

- Interconversion**
 Coordination polymer, Hydro(solvo)thermal synthesis, Cobalt oxydiacetate, Topological isomerism, Self-assembly, 2953
- Interlocked structure**
 Molecule-based magnets, Metamagnetism, 2391
- Intermolecular hydrogen bonds**
 Tantalum, Bicyclic guanidinate, Coordination isomer, Dodecahedral geometry, 2731
- Intermolecular interactions**
 Molecular magnetism, Hexacyanometalates, Trinuclear cyanocomplexes, 2427
- Intervalence charge-transfer**
 Benzotriazole, Electron transfer, Mixed-valence, Ruthenium-polypyridine, 1303
- Intramolecular**
 Interaction, Hydrogen bonding, Proton, 769
- Intramolecular coordination**
 Titanium, Cyclopentadienyl ligands, O ligands, P ligands, Variable-temperature NMR spectroscopy, 2885
- Intramolecular electron transfer**
 Mixed-valence, Ruthenium complexes, Rhenium complexes, Energy conversion, 369
- Intramolecular electron transfer**
 Mixed-valence, Ruthenium complexes, Inverted region, Reorganization energies, Energy conversion, 465
- Intramolecular hydrogen bonding**
 Trpn, Abpt, Monoclinic, Crystal, Octahedral geometry, 3181
- Inverted region**
 Mixed-valence, Ruthenium complexes, Intramolecular electron transfer, Reorganization energies, Energy conversion, 465
- Iodide**
 Uranium, Lanthanides, Triphenylphosphine oxide, Triflate, X-ray crystal structure, 3475
- Iodine**
 Carbenes, Palladium, Platinum, Crystal structures, Luminescence, 1515
- Iodosobenzene**
 Salen Cu(II) complexes, Schiff-base ligands, Catalytic epoxidation, Styrene, Hammett substituent constants, 1653
- Ion-exchange chromatography**
 Isotopic fractionation, Complex formation, Dimerization, Separation coefficient, Molecular vibration, 1377
- Ionic crystals**
 Nitronyl nitroxide, Radical ions, Magnetism, Organic crystals, 2343
- Ionization energies**
 Ab-initio methods, Cyclic phosphazines, Electron propagator methods, Electronic structures, Vibrational frequencies, 473
- Iorn**
 Crystal structure, Nonporous solids, 725
- IR**
 Neodymium complexes, Hydrothermal synthesis, X-ray crystallography, TGA, Supramolecular structures, 981
- IR**
 Ternary manganese(II) complexes, 1,10-Phenanthroline, Neocuproine, Indole-2-carboxylic acid, Crystal structures, Catalytic activity, 1461
- IR spectra**
 Manganese complexes, 1,1-Cyclobutane-dicarboxylate complexes, Crystal structures, Thermal analysis, TG-FTIR analysis, 2595
- IR spectra**
 Thiosemicarbazone, Copper(II), Electronic spectra, EPR, X-ray crystal structure, 3321
- IR-spectroscopy**
 Dithiocarbimates, Zinc complexes, Crystal structure, NMR, 3355
- Iron**
 Decafluorodiphenylamido, Titanium, Zirconium, Vanadium, Cobalt, 153
- Iron**
 Nitrilotriacetate, Iminodiacetate, Hydrogen sulfide, Crystal structures, 941
- Iron**
 Carboxylate, Cobalt, Magnetism, Manganese, Pyromellitate, Framework, 1921
- Iron**
 Thiocarbonate complexes, X-ray structure, Carbonyl, Sulfur-ligands, 3105
- Iron**
 Dithiocarbamate, Diselenocarbamate, Thioselenocarbamate, Nitrosyl, ^{13}C NMR, ^{15}N NMR, 3423
- Iron**
 Substitution, Thiocarboxylate, Bisphosphine ligands, Structure, 3445
- Iron complexes**
 Crystal structure, Cyano-bridged complexes, Manganese complexes, Macroyclic ligands, Magnetic properties, 1315
- Iron-porphyrin complex**
 Electron-pair repulsion, Polarizing molecular mechanics, Heme charge, Oxygen fixation, CO/O₂ discrimination, 1091
- Iron(II)**
 Encapsulating ligand, Low-spin, π -Acceptor, Thiaether, 45
- Iron(III)**
 Cobalt(II), Nickel(II), Copper(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridine formamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Iron(III)**
 μ -Oxalato-bridge, Copper(II), Chromium(III), Heterotrinuclear complexes, Magnetism, 3223
- Iron(III) complexes**
 Synthesis, Pyrazolylthiosemicarbazone, X-ray crystal structures, 375
- Ironglucose**
 2,2'-6',2'-terpyridine, sugar, X-ray, 687
- Ising-like Hamiltonian**
 Monte Carlo entropic sampling technique, Spin-transition, Thermal hysteresis loop, 2453
- Ising-like model**
 Spin-crossover, Bistability, Magnetic field effect, Monte Carlo, 2441
- Isobutyl group**
 Antimony, Bromine, Ring-ring equilibrium, X-ray diffraction, NMR spectra, 1719
- Isobutylenediamine**
 X-ray structures, Cobalt(III) complexes, Diethylenetriamine, 1603
- Isomer preference**
 $\text{Sym-fac-}[\text{Co}(\text{bpma})(\text{bipy})\text{Cl}]^{2+}$ isomer, Cobalt(III) complexes, Crystal structures, Energy minimisation, 263
- Isomerisation**
 Carborane, Synthesis, Spectroscopy, Crystallographic study, Vertex labelling, 1293
- Isomers**
 Phenylazoisoquinolin, Ruthenium(II) complexes, X-ray structures, 535
- Isophthalate**
 2,2'-Bipyridine, Cadmium(II) complex, Double-helix, Polymeric tubes, Zinc(II) complex, 1231
- Isopropoxo**
 N -phenylsalicylideneiminato, Aluminum(III) atoms, Molecular structures, 2943
- Isotopic fractionation**
 Ion-exchange chromatography, Complex formation, Dimerization, Separation coefficient, Molecular vibration, 1377
- Itinerant ferromagnetism**
 Organic polymer, Flat band, Polyaminotriazole, Molecular crystal, First-principles calculation, 1883
- Jaccarino-Peter effect**
 Magnetic conductors, Magnetic superconductor, π -d, Effective exchange integral, Hybrid density functional method, 2077
- Jahn-Teller effect**
 d^1 and d^5 metal complexes, Magnetic properties, 2545
- Jahn-Teller isomers**
 Single-molecule magnets, Hysteresis, Quantum tunneling of magnetization, 1783
- Keggin anion**
 Electron transfer, Coulombic repulsion, Ab initio calculation, Magnetic coupling, 2331
- Keggin structures**
 Heteropolyanion, LB films, Cyclic voltammetry, 2647
- Keggin-type anions**
 Polyoxometallates, Octamolybdates, Imidazole ligands, Copper, 3091
- Kinetic exchange**
 Cobalt(II) clusters, Magnetic anisotropy, 2537
- Kinetics**
 Adduct, Transmetalation, Heteropolymetallic, Target, Formation, 2917
- Langmuir-Blodgett**
 Magnetic thin films, Metal cyanide square grid, GIXD, 3059

- Lanthanide**
 Praseodymium complexes, 2,2'-Bipyridine, Thiocyanate, Chloride, Nitrate, Dithiocarbamate, Crystal structures, 347
- Lanthanide**
 Synthesis, Crystal structures, Samarium, Ytterbium, β -Diketiminate ligand, 441
- Lanthanide**
 Luminescence, Macrocycles, Ternary complexes, 745
- Lanthanide**
 Supramolecular architecture, Glycine, 1,10-Phenanthroline, Coordination compound, Non-covalent interactions, 2617
- Lanthanide complexes**
 2-Hydroxypropyl *p*-nitrophenyl phosphate, Glycine-alanine, Benzyl alanine esters, 711
- Lanthanide complexes**
 Macrocycles, Chiral complexes, NMR, 2877
- Lanthanide complexes**
 2-Hydroxynicotinic acid, Luminescence, Crystal structures, 3529
- Lanthanide nitrates**
 Dimeric structures, Ligand, Reaction, 1431
- Lanthanide picrates complexes**
 X-ray structures, Solvent extraction, 1695
- Lanthanide salt**
 Carboxylate, Coordination network, Double betaine, 2787
- Lanthanide(III) complexes**
 Hydrogen bonded coordination complexes, *N,N'*-dimethylurea metal complexes, Spectroscopic characterisation, X-ray crystal structures, 825
- Lanthanides**
 Dications, Divalent, Cyclopentadienyl, Amide, Protonolysis, 119
- Lanthanides**
 Crystal structures, Rare earths, Vibration spectra, 271
- Lanthanides**
 Divalent europium, Crown ethers, Structures, Luminescence, 337
- Lanthanides**
 Amides, Compound, Catalysis, Polymerization, Polymer, 1019
- Lanthanides**
 Divalent europium, Nitrilotriacetate, Structures, Spectroscopy, 2761
- Lanthanides**
 Yttrium, Macroyclic Schiff base complexes, Template synthesis, X-ray structure, 2773
- Lanthanides**
 Uranium, Triphenylphosphine oxide, Iodide, Triflate, X-ray crystal structure, 3475
- Lanthanum**
 X-ray structures, Alkoxides, Triflate, Grafting, 127
- Lariat ether**
 Lead(II) complexes, Macrocycle, Crystal structures, Template synthesis, 2709
- Laser ablation synthesis**
 Tellurium, Sulfur, Clusters, Mass spectrometry, Post-source decay, 2601
- Late transition metal**
 Antiferromagnetic interaction, Alkoxide, X-ray, Molecular structure, 2581
- Layer-structured basic copper compound**
 Local magnetic structures, Local magnetic interactions, Hyperfine coupling of OD⁻ ions, Solid-state high-resolution deuterium NMR, 1995
- Layered compounds**
 Phosphonates, Octadecyl, Nickel(II) ion, Magnetic properties, Weak ferromagnet, 2463
- Layered materials**
 Magnetic and structural characterisation, AMnFe(C₂S₂O₂)₃, 2317
- LB films**
 Heteropolyanion, Keggin structures, Cyclic voltammetry, 2647
- L-Cysteine**
 Palladium(II), Glutathione, Sodium dodecyl sulfate, Complex formation, Micellar catalysis, 279
- Lead**
 Dicyanamide, Coordination polymer, Coordination mode, Double-stranded, One-dimensional, 917
- Lead soaps**
 Hydrothermal, Palmitic acid, Stearic acid, Red lead, Lead-tin yellow, 3171
- Lead(II) clusters**
 Hydroxo-complexes, Molecular structures, Geometry optimizations, 2863
- Lead(II) complexes**
 Lariat ether, Macrocycle, Crystal structures, Template synthesis, 2709
- Lewis acidity**
 Cyclo-boratetrasiloxanes, B-O-Si linkages, Cyclocondensation, 3333
- Lead-tin yellow**
 Lead soaps, Hydrothermal, Palmitic acid, Stearic acid, Red lead, 3171
- L-Glutamic acid**
 Oligovanadates, L-Glutamine, Decomposition, Electronic spectra, Crystal structures, 1415
- L-Glutamine**
 Oligovanadates, L-Glutamic acid, Decomposition, Electronic spectra, Crystal structures, 1415
- Li_xMoSo₂**
 Magnetic properties, Susceptibility, Nanotubes, 2293
- Lifetime**
 Crystal structures, Europium organic complexes, Luminescence, Synthesis, 2719
- Ligand**
 Pyridyl, Crystallography, Hexadentate, Helicate, 755
- Ligand**
 Self-assembly, Bridging, Tetrahedral cage, Anion binding, 781
- Ligand**
 Dimeric structures, Lanthanide nitrates, Reaction, 1431
- Ligand**
 Ferromagnetic interaction, Supramolecule, Channel, Nitroxide, Free radical, 2133
- Ligand**
 Ferromagnetic interaction, Nitroxide, Free radical, ESR, 2557
- Ligand exchange**
 Amide, Chloride, Gallium, Titanium, 9
- Ligand exchange reaction**
 Ru(II) complex, Solid state, Phase transfer catalyst, 3289
- Ligand-field parameters**
 Cobalt(II) complexes, Schiff base, Salicylideneaniline, Solutions, Electronic spectra, Chromaticity, Solvatochromism, 997
- Ligands**
 Molecular assemblies, Metal precursors, Polymeric network, 3009
- Light-induced excited spin state trapping**
 [Fe(ptz)₆](BF₄)₄, Polarised neutron diffraction, Spin density, 2155
- Lipid peroxidation**
 Chromium picolinate, 8-OHdG, Rats, DNA, 455
- Lithium**
 Sodium, Potassium, Amide ligands, 12-Crown-4, Crystal structures, 3507
- Local C₂ symmetry**
 Complexed ligand, $\kappa^2N:\kappa^3N$ Bridging fashion, Ferromagnetic behavior, 1789
- Local magnetic interactions**
 Layer-structured basic copper compound, Local magnetic structures, Hyperfine coupling of OD⁻ ions, Solid-state high-resolution deuterium NMR, 1995
- Local magnetic structures**
 Prussian-blue analogs, Solid-state ¹³C NMR, Hyperfine coupling of CN ions, Solid-state high-resolution deuterium NMR, Crystal water molecules, 1981
- Local magnetic structures**
 Layer-structured basic copper compound, Local magnetic interactions, Hyperfine coupling of OD⁻ ions, Solid-state high-resolution deuterium NMR, 1995
- Long range ¹H–¹⁵N HMQC**
 ATP-cisplatin complexes, pH variation, NMR DOSY, 611
- Low-dimensional magnetism**
 Organic-based magnet, Spin glass, Tetra-cyanoethylene, Susceptibility, Fractal cluster, 1751
- Low-spin**
 Encapsulating ligand, Iron(II), π -Acceptor, Thiaether, 45
- Lumazine**
 Crystal structures, Complexes, Pteridine, 483
- Luminescence**
 Divalent europium, Lanthanides, Crown ethers, Structures, 337

- Luminescence
Lanthanide, Macrocycles, Ternary complexes, 745
- Luminescence
Carbenes, Palladium, Platinum, Iodine, Crystal structures, 1515
- Luminescence
Crystal structures, Europium organic complexes, Lifetime, Synthesis, 2719
- Luminescence
Lanthanide complexes, 2-Hydroxynicotinic acid, Crystal structures, 3529
- Macrobicycle
Lead(II) complexes, Lariat ether, Crystal structures, Template synthesis, 2709
- Macrocyclic copper(II) complexes
Tricompartmental ligands, Magnetic properties, Electrochemical properties, Catalytic activity, 3483
- Macrocyclic ligands
Binuclear copper(II) complexes, Magnetochemistry, Electrochemistry, Catalytic activity, 1407
- Macrocycle
Schiff base, Template, Nickel(II) complexes, Mixed-donor macrocycles, Azacrown ethers, 1481
- Macrocycles
Zinc(II) complexes, Five-coordinated, Diamine-bridged, Dinuclear complexes, Crystal structures, 529
- Macrocycles
Luminescence, Lanthanide, Ternary complexes, 745
- Macrocycles
Lanthanide complexes, Chiral complexes, NMR, 2877
- Macrocyclic complexes
Nickel complexes, Template synthesis, Hexaazacyclohexadecane, 2633
- Macrocyclic compounds
Transition metal ions, Complexation, Conductometry, Potentiometry, 569
- Macrocyclic ligands
Crystal structure, Cyano-bridged complexes, Manganese complexes, Iron complexes, Magnetic properties, 1315
- Macrocyclic ligands
Crystal structures, Dicyanamido-bridged complexes, Manganese complexes, Magnetic properties, 1611
- Macrocyclic Schiff base complexes
Yttrium, Lanthanides, Template synthesis, X-ray structure, 2773
- Macrocyclic Schiff bases
Dibenzotetraaza[14]annulenes, Alkoxy-carbonylation, Stacking, $\text{CH}\cdots\text{O}$ hydrogen bonds, 3299
- Maghemite
Nanocomposite, Polyvinylpyridine, Nanoparticles, Magnetic properties, 2457
- Magnesium
Porphyrazines, Phthalocyanines, Copper, Zinc, Electrochemistry, 3083
- Magnetic and structural characterisation
Layered materials, $\text{AMnFe}(\text{C}_2\text{S}_2\text{O}_2)_3$, 2317
- Magnetic anisotropy
Nanomagnets, Single-molecule magnets, Density-functional calculations, Spin-orbit coupling, 1871
- Magnetic anisotropy
Molecular conductor, Molecular magnet, π -d interaction, Magnetoresistance, Weak ferromagnetism, 2227
- Magnetic anisotropy
Tetranuclear cluster, Inelastic neutron scattering, Susceptibility, Magnetic frustration, 2471
- Magnetic anisotropy
Exchange interaction, Double exchange, Mixed-valence compounds, 2521
- Magnetic anisotropy
Kinetic exchange, Cobalt(II) clusters, 2537
- Magnetic behavior
Exchange interaction, Copper(II) complexes, Iminonitroxide, 1803
- Magnetic clusters
Single molecule magnet, Susceptibility, Chirality, Manganese, 2355
- Magnetic conductors
Magnetic superconductor, π -d, Effective exchange integral, Hybrid density functional method, Jaccarino-Peter effect, 2077
- Magnetic coupling
Keggin anion, Electron transfer, Coulombic repulsion, Ab initio calculation, 2331
- Magnetic effective density functional, MEDF
One-dimensional (1D) metal chain complexes, Effective exchange integrals, 2019
- Magnetic exchange coupling
Molecular magnets, Copper(II), Manganese(II), Cobalt(II), Nitroxide, 2487
- Magnetic field effect
Spin-crossover, Bistability, Ising-like model, Monte Carlo, 2441
- Magnetic frustration
Tetranuclear cluster, Inelastic neutron scattering, Magnetic anisotropy, Susceptibility, 2471
- Magnetic interaction
Molecule-based magnetism, Nitronyl nitroxide, Thieno[3,4-*d*]imidazole, Solution ESR spectra, 1823
- Magnetic interactions
Spin densities, Molecular magnet, 2301
- Magnetic measurement
Schiff base, Cubane structure, Copper, Nickel, Manganese, 2359
- Magnetic moment
Molybdenum complexes, Benzoinoxime, Dimer, Electrochemical properties, 895
- Magnetic moment
Valence tautomerism, Cobalt, Charge-transfer band, 2401
- Magnetic moment
Manganese(IV) complex, Cobalt(III) complex, Crystal structure, Hydrogen bonds, 3515
- Magnetic order
Single-molecule magnets, Mn_4 , Spin-lattice relaxation, Quantum tunneling of the magnetic moment, Very-low-temperature time-dependent specific heat, 2169
- Magnetic properties
Binuclear nickel(II) complex, Crystal structure, End-on azido ligand complex, Terminal azido ion complex, Hexadentate ligand, 257
- Magnetic properties
Copper(II), Thiodiglycolic acid complexes, Crystal structures, EPR, 411
- Magnetic properties
Bimetallic coordination polymers, Dicyanamide, Crystal structures, Sandwich, Template, 433
- Magnetic properties
Crystal structure, Cyano-bridged complexes, Manganese complexes, Iron complexes, Macroyclic ligands, 1315
- Magnetic properties
Crystal structures, Dicyanamido-bridged complexes, Manganese complexes, Macrocyclic ligands, 1611
- Magnetic properties
Cu(II) complexes, Mercury, Cyanide ligands, Coordination polymers, 1735
- Magnetic properties
Single-molecule magnets, Crystal structures, 1765
- Magnetic properties
Carbenes, Copper, Assembly, Spin-glass, Photolysis, 1877
- Magnetic properties
Cobalt cluster, Crystal structures, Hydrothermal synthesis, MCD, 1917
- Magnetic properties
Fullerene, Molecular complexes, Anomalous paramagnetic centers, 2009
- Magnetic properties
Malonate, Caboxylate, Molecular magnetism, 2111
- Magnetic properties
Pentacyanoferrate complexes, Square grid network, Magnetometry, 2125
- Magnetic properties
 Li_xMoSo_2 , Susceptibility, Nanotubes, 2293
- Magnetic properties
Molecule-based magnet, Cobalt, Cluster glass, 2387
- Magnetic properties
Host-guest systems, MCM-41, Mesoporous materials, Single-molecule magnets, Mn clusters, 2395
- Magnetic properties
Ab initio calculations, CASPT2, Difference dedicated CI, Oxalato-bridged complexes, Hetero-bimetallic complexes, 2409

- Magnetic properties
Dithiolates, Gold(III) complexes, Crystallographic studies, Electrical transport properties, Charge-transfer salts, 2447
- Magnetic properties
Nanocomposite, Polyvinylpyridine, Manganite, Nanoparticles, 2457
- Magnetic properties
Phosphonates, *Octadecyl*, Nickel(II) ion, Layered compounds, Weak ferromagnet, 2463
- Magnetic properties
 d^1 and d^5 metal complexes, Jahn-Teller effect, 2545
- Magnetic properties
Copper(II) complexes, Self-assembly, Structural elucidation, 2661
- Magnetic properties
Dipyridinated manganese(II) phthalocyanine, Crystal structures, Antiferromagnetic interactions, Oxidation, UV-Vis spectroscopy, 2689
- Magnetic properties
Trinuclear copper complexes, Crystal structures, 2927
- Magnetic properties
Synthesis, Crystal structures, Oxalato complexes, 3115
- Magnetic properties
Dicyanamide complexes, Crystal structures, 3315
- Magnetic properties
Macrocyclic copper(II) complexes, Tricompartmental ligands, Electrochemical properties, Catalytic activity, 3483
- Magnetic properties and ferromagnetic interactions
Copper(II) complexes, Tetranuclear complexes, 625
- Magnetic property
Trinuclear complexes, Tritopic hydrazide ligands, Structural property, 1271
- Magnetic property
Gadolinium, Copper, Trinuclear complex, Crystal structure, 1905
- Magnetic property
Molecular-based magnetism, Diaryl porphyrin, Monolayer, 2281
- Magnetic structures
Molecule-based magnets, Bulk ferromagnetism, *p*-(nitro)Phenyl nitronyl nitroxide, Theoretical analysis, 1935
- Magnetic superconductor
Magnetic conductors, π -d, Effective exchange integral, Hybrid density functional method, Jaccarino-Peter effect, 2077
- Magnetic susceptibility
Single-component organic ferrimagnet, Electron spin resonance, Nitronyl nitroxide, Perturbation treatment, Triradical, 1809
- Magnetic susceptibility
Organic ferrimagnet, Nitronyl nitroxide, Charged biradical, Electron spin resonance, Supramolecular crystal engineering, 1817
- Magnetic susceptibility
Tetrabromocuprates, Two-dimensional Heisenberg antiferromagnet, Ab initio, 2235
- Magnetic susceptibility
Fe-Bisdithiolen complexes, Mössbauer spectroscopy, X-ray crystal structures, 2481
- Magnetic susceptibility
Antiferromagnetic coupling, Square-pyramidal environment, 2515
- Magnetic thin films
Metal cyanide square grid, Langmuir-Blodgett, GIXD, 3059
- Magnetism
Dicyanonitrosomethane derived oximate ligands, Mixed valent manganese clusters, Trinuclear, Tetranuclear, Crystal structures, 165
- Magnetism
Ni(III) thiolate complexes, Crystal structures, Spin canting, 299
- Magnetism
Cobalt, Nickel, Copper, Tetra(*3-iso*-propylpyrazolyl)borate, Structures, 1645
- Magnetism
Carboxylate, Cobalt, Iron, Manganese, Pyromellitate, Framework, 1921
- Magnetism
Verdazyl radical, Spin-Peierls transition, Heat capacity, Doping effect, Antiferromagnetic order, High-field magnetization, 2091
- Magnetism
Nitronyl nitroxide, Radical ions, Organic crystals, Ionic crystals, 2343
- Magnetism
Tetrathiafulvalenes, Metal bis-dithiolen complexes, Electrical conductivity, X-ray crystal structures, 2415
- Magnetism
 μ -Oxalato-bridge, Copper(II), Chromium(III), Iron(III), Heterotrinuclear complexes, 3223
- Magnetization
Single-molecule magnets, Two-electron reduction, Crystallization, 1777
- Magnetization tunneling
Single-molecule magnets, Nanomagnet, Superparamagnet, Nickel, 1727
- Magnetization tunneling
Single-molecule magnets, Nanomagnet, Superparamagnet, Manganese, 1857
- Magnetization tunnelling
Manganese cages, Single-molecule magnet, 1,1,1-Tris(hydroxymethyl)ethane, 1771
- Magnetochemistry
Binuclear copper(II) complexes, Macrocyclic ligands, Electrochemistry, Catalytic activity, 1407
- Magnetometry
Magnetic properties, Pentacyanoferrate complexes, Square grid network, 2125
- Magnetoresistance
Molecular conductor, Molecular magnet, π -d interaction, Weak ferromagnetism, Magnetic anisotropy, 2227
- Malonate
Carboxylate, Magnetic properties, Molecular magnetism, 2111
- Malonate ligands
Copper(II) coordination compounds, Dicarboxylates, Ferromagnetism, 2143
- Manganese
Epoxidation, Biaryl, Schiff-base, Chiral-at-metal, 1617
- Manganese
Boron, Carbonyl complexes, Octahydrotriborate(2-), Organophosphine ligands, Rhenium, X-ray structures, 1627
- Manganese
Single-molecule magnets, Nanomagnet, Magnetization tunneling, Superparamagnet, 1857
- Manganese
Single molecule magnets, Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, 1889
- Manganese
Single molecule magnets, Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, 1897
- Manganese
Single-molecule magnets, Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, 1911
- Manganese
Carboxylate, Cobalt, Iron, Magnetism, Pyromellitate, Framework, 1921
- Manganese
Chirality, Circular dichroism, Nitroxide, 2349
- Manganese
Single molecule magnet, Susceptibility, Chirality, Magnetic clusters, 2355
- Manganese
Magnetic measurement, Schiff base, Cubane structure, Copper, Nickel, 2359
- Manganese
Suberato complexes, Coordination polymers, X-ray structures, 2699
- Manganese cages
Single-molecule magnet, Magnetization tunnelling, 1,1,1-Tris(hydroxymethyl)ethane, 1771
- Manganese complexes
Cobalt complexes, Copper complexes, 4,4'-Bipyridine-N,N'-dioxide, Extended structures, 789
- Manganese complexes
Crystal structure, Cyano-bridged complexes, Iron complexes, Macroyclic ligands, Magnetic properties, 1315
- Manganese complexes
Crystal structures, Dicyanamido-bridged complexes, Macroyclic ligands, Magnetic properties, 1611
- Manganese complexes
Nitronyl nitroxide, Tetrazole, Nickel complexes, 1965
- Manganese complexes
1,1-Cyclobutanedicarboxylate complexes, Crystal structures, IR spectra, Thermal analysis, TG-FTIR analysis, 2595

- Manganese(II)
Nickel(II), Zinc(II), Crystal structures, 2-Methyllactato complexes, Thermal analysis, 1051
- Manganese(II)
Molecular magnets, Copper(II), Cobalt(II), Nitroxide, Magnetic exchange coupling, 2487
- Manganese(II) complexes
Coordination polymers, TEMPO, Nitroxides, Copper(II) complexes, 2363
- Manganese(II) complexes
Imidazole-4-acetic acid, Cobalt(II) complexes, X-ray structure, Absorption spectra, EPR spectra, 3123
- Manganese(II) complexes
2,2-Dimethylpentanedioic acid, 3,3-Dimethylpentanedioic acid, 2,2'-Bipyridine, 1,10-Phenanthroline, Crystal structure, Anti-*Candida* activity, 3187
- Manganese(III)
Carboxylate chain structures, Hydrogen-bonded sheets, Metamagnetism, Crystal structures, 2161
- Manganese(IV) complex
Cobalt(III) complex, Crystal structure, Magnetic moment, Hydrogen bonds, 3515
- Mannich
Copper(II) complexes, α -Amino acids, Formaldehyde, Acetamide, 521
- Mass spectrometry
Tellurium, Sulfur, Clusters, Laser ablation synthesis, Post-source decay, 2601
- MCD
Cobalt cluster, Magnetic properties, Crystal structures, Hydrothermal synthesis, 1917
- MCM-41
Host-guest systems, Mesoporous materials, Single-molecule magnets, Magnetic properties, Mn clusters, 2395
- MeIm, methylimidazole
Malonate, Caboxylate, Magnetic properties, Molecular magnetism, 2111
- Meloxicam
Tenoxicam, X-ray diffraction, Dimethylsulfoxide, 1355
- Mercaptophenol
Multi-functional ligand, (Arene)ruthenium, Tristhiolato, 543
- Mercury
Cu(II) complexes, Cyanide ligands, Coordination polymers, Magnetic properties, 1735
- Mercury
Rhodium, 3,5-Dimethylpyrazole, Pentafuorophenylthiolate, Crystal structures, 3293
- Mercury(II)
Ylide complexes, Crystal structures, Silver(I), 3345
- Mercury(II) complexes
Thiocemicarbazone complexes, Crystal structures, Spectral data, 1147
- Mesoporous materials
Host-guest systems, MCM-41, Single-molecule magnets, Magnetic properties, Mn clusters, 2395
- Metal amide
Pyridine, X-ray crystallography, Silyamide, 67
- Metal bis-dithiolene complexes
Tetrathiafulvalenes, Magnetism, Electrical conductivity, X-ray crystal structures, 2415
- Metal clusters
Supramolecular chemistries, Coordination polymers, Single crystal X-ray diffractions, 2999
- Metal complex
Phthalocyanine, Unsymmetrical, Substituted, Trimeric, s-Triazine, 819
- Metal complexes
(Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropenonitrile, X-ray structures, Silver(I), Antifungal, *Candida albicans*, 1595
- Metal complexes
Metallocene, Ferromagnetism, Dithiolene complexes, 2339
- Metal cyanide square grid
Magnetic thin films, Langmuir–Blodgett, GIXD, 3059
- Metal precursors
Ligands, Molecular assemblies, Polymeric network, 3009
- Metal sulfide
Molecular precursor, Diethyl ether, Annealing, 1255
- Metal sulfide
Molecular precursor, 1499
- Metal–metal bonds
Rhodium complexes, Cobalt complexes, X-ray structure analyses, Electronic structures, Cyclic voltammetry, 3413
- Metal–metal multiple bonds
Dirhenium complexes, Crystal structures, Face-sharing biocatahedral complexes, Thiolate ligands, Phosphine ligands, 2625
- Metal–organic framework
Coordination polymer, Noncentrosymmetric structures, Inclusion compounds, Rectangular grid, Bifunctional ligand, 235
- Metal(II) complexes
Hydroxyacetophenone, Thiocemicarbazone, Copper, Nickel, Crystal structures, 2831
- Metalla-macrocycles
Templating agents, Palladium and nickel complexes, Triphenylphosphine, Anion template, Hydrogen bonding, 2991
- Metallacycles
Coordination chemistry, Bridging ligand, Coordination modes, 1837
- Metallation
Osmium, Methyl substituent, Trimethylthiazole, X-ray structures, 355
- Metallocene
Biferrocenium, Pyridinyl, Supramolecule, 1199
- Metallocene
Metal complexes, Ferromagnetism, Dithiolene complexes, 2339
- Metallostar
Copper, Silver, Ruthenium, 2,2'-Bipyridine, X-ray, 93
- Metamagnetism
Manganese(III), Carboxylate chain structures, Hydrogen-bonded sheets, Crystal structures, 2161
- Metamagnetism
Molecular magnetism, Canted antiferromagnetism, a.c. susceptibility, High pressure, 2249
- Metamagnetism
Molecule-based magnets, Interlocked structure, 2391
- Metastable states
Photochromic effect, Pseudo-Jahn–Teller effect, Electron transfer, 2527
- Methanol
Electrochemical synthesis, 2-Aminopyridine, Schiff base, 1335
- Methoxy complexes
Molybdenum clusters, Tungsten clusters, X-ray crystal structures, 1553
- 2-Methyllactato complexes
Manganese(II), Nickel(II), Zinc(II), Crystal structures, Thermal analysis, 1051
- Methyl substituent
Osmium, Metallation, Trimethylthiazole, X-ray structures, 355
- Methyl viologen
Cryptands, Polyether macrocycles, Xanthate, 795
- MgPc(H₂O)
Recrystallization, Photodynamic, 1167
- Micellar catalysis
Palladium(II), Glutathione, L-Cysteine, Sodium dodecyl sulfate, Complex formation, 279
- Mixed donor set
Dissymmetric Schiff base, Copper complexes, X-ray structures, Cyclic voltammetry, 1437
- Mixed metal oxides
Octamolybdate subunits, Hydrothermal synthesis, Hydrothermal reactions, 177
- Mixed valent manganese clusters
Dicyanonitrosomethanide derived oximate ligands, Trinuclear, Tetranuclear, Magnetism, Crystal structures, 165
- Mixed-donor macrocycles
Macrocycle, Schiff base, Template, Nickel(II) complexes, Azacrown ethers, 1481
- Mixed-ligand complexes
Copper(II), Crystal structures, π,π -Stacking, Nitro, Benzyl, 1039
- Mixed-valence
Ruthenium complexes, Rhenium complexes, Intramolecular electron transfer, Energy conversion, 369

- Mixed-valence
Ruthenium complexes, Intramolecular electron transfer, Inverted region, Reorganization energies, Energy conversion, 465
- Mixed-valence
Benzotriazole, Electron transfer, Intervalance charge-transfer, Ruthenium-poly-pyridine, 1303
- Mixed-valence clusters
Antisymmetric double exchange, Zero-field splitting, 2253
- Mixed-valence compounds
Exchange interaction, Double exchange, Magnetic anisotropy, 2521
- MMX
Hybrid density functional theory, $\text{Ni}_2(\text{dta})_2\text{I}$, Effective exchange interaction, 2027
- Mn cluster
Single-molecule magnet, Benzenesulfonic acid, 1759
- Mn clusters
Hysteresis, Quantum tunneling, Single-molecule magnets, 2267
- Mn clusters
Host-guest systems, MCM-41, Mesoporous materials, Single-molecule magnets, Magnetic properties, 2395
- Mn compounds
Crystal structures, Polymeric, Solid state, 133
- Mn_{12}
Single molecule magnets, Thermal stability, Thermolytic synthetic methods, 1951
- Mn_{12} complexes
Single-molecule magnet, Single crystal X-ray analysis, a.c. and d.c. magnetic susceptibility, 2-Thiophencarboxylic acid, PPh_4 salt, 1795
- Mn_4
Single-molecule magnets, Spin-lattice relaxation, Quantum tunneling of the magnetic moment, Magnetic order, Very-low-temperature time-dependent specific heat, 2169
- Mn^{III} -Schiff base complex
Crystal structures, Redox activity, Hydroquinone, Catechol, 1191
- $\text{Mo}(\text{PMe}_3)_6$
3,5-Di-*t*-butylpyrazolyl, Molybdenum complexes, $[\text{pz}^{\text{Bu}}_2\text{Mo}(\text{PMe}_3)_4\text{H}]$, η^2 -Coordination, 199
- Molecular assemblies
Ligands, Metal precursors, Polymeric network, 3009
- Molecular based magnet
Weak-ferromagnetism, Ferrimagnet, Transition metal complex, Crown thioether, Benzene dithiolate, 1755
- Molecular complexes
Fullerene, Magnetic properties, Anomalous paramagnetic centers, 2009
- Molecular conductor
Molecular magnet, π -d interaction, Magnetoresistance, Weak ferromagnetism, Magnetic anisotropy, 2227
- Molecular crystal
Itinerant ferromagnetism, Organic polymer, Flat band, Polyaminotriazole, First-principles calculation, 1883
- Molecular device
Spirolyrans, Spirooxazine, Bipyridine, Ruthenium complexes, 655
- Molecular magnet
Nuclear relaxation, Quantum tunnelling, 1745
- Molecular magnet
Muon-spin rotation, Organic magnet, Nanodisc, Quantum tunneling, 1973
- Molecular magnet
Canted antiferromagnet, Fe complex, High pressure, Compressibility, Bulk modulus, 2139
- Molecular magnet
Molecular conductor, π -d interaction, Magnetoresistance, Weak ferromagnetism, Magnetic anisotropy, 2227
- Molecular magnet
 ^{13}C NMR, Quantum spin chain, $S=1/2$ antiferromagnet, Cu complex, Field-induced excitation gap, 2273
- Molecular magnet
Spin densities, Magnetic interactions, 2301
- Molecular magnetism
Supramolecular, Carboxylate, Radical, Co(II) complexes, Hydrogen-bond, 1929
- Molecular magnetism
Organic superconductor, Effective exchange integral, Ab initio MO method, Density functional method, BEDT-TTF, BETS, TMTTF, TMTSF, 2051
- Molecular magnetism
Malonate, Caboxylate, Magnetic properties, 2111
- Molecular magnetism
Metamagnetism, Canted antiferromagnetism, a.c. susceptibility, High pressure, 2249
- Molecular magnetism
Radical salts, Tetrathiafulvalene, Bimetallic oxalato complexes, Conducting properties, 2381
- Molecular magnetism
Hexacyanometalates, Trinuclear cyanocomplexes, Intermolecular interactions, 2427
- Molecular magnetism
Ferromagnetism, Dipolar interactions, Ac susceptibility, High pressure, 3339
- Molecular magnets
Copper(II), Nitroxide, Imidazole, Exchange coupling, 1957
- Molecular magnets
Cyano-bridged coordination compounds, Coordination polymers, Crystal structures, Octacyanometallates, 2183
- Molecular magnets
Chiral ligands, Cyanide complexes, 2435
- Molecular magnets
Copper(II), Manganese(II), Cobalt(II), Nitroxide, Magnetic exchange coupling, 2487
- Molecular magnets
Imino nitroxide, Nitronyl nitroxide, Cu(II) complexes, 2499
- Molecular oxide
Polyoxometalate, Protonation, Molybdenum, 2847
- Molecular precursor
Metal sulfide, Diethyl ether, Annealing, 1255
- Molecular precursor
Metal sulfide, 1499
- Molecular rectangles
Tetranuclear copper(II) complexes, Schiff bases, Crystal structures, 1385
- Molecular recognition
Supramolecular chemistry, Self-assemblies, Solid state structures, Pyrroles, Hydrogen bonds, 2963
- Molecular spin diversity
Oxophenalenoxyl, Monoradicals, Spin topology, Spin density distribution, Density functional calculation, 2205
- Molecular structure
Antiferromagnetic interaction, Alkoxide, Late transition metal, X-ray, 2581
- Molecular structures
Pentamethylcyclopentadienyl, Indenyl, Ruthenium, Bipyridine, Phenanthroline, 307
- Molecular structures
Diphosphine complexes, Nickel complexes, Crystal packing, 1567
- Molecular structures
Lead(II) clusters, Hydroxo-complexes, Geometry optimizations, 2863
- Molecular structures
N-phenylsalicylideneiminato, Isopropoxo, Aluminium(III) atoms, 2943
- Molecular vibration
Isotopic fractionation, Ion-exchange chromatography, Complex formation, Dimerization, Separation coefficient, 1377
- Molecular-based magnetism
Diaryl porphyrin, Magnetic property, Monolayer, 2281
- Molecule-based magnet
Magnetic properties, Cobalt, Cluster glass, 2387
- Molecule-based magnetism
Nitronyl nitroxide, Thieno[3,4-*d*]imidazole, Solution ESR spectra, Magnetic interaction, 1823
- Molecule-based magnets
Bulk ferromagnetism, *p*-(nitro)Phenyl nitronyl nitroxide, Theoretical analysis, Magnetic structures, 1935
- Molecule-based magnets
Metamagnetism, Interlocked structure, 2391
- Molybdenum
Rhodium, Polyoxometalate, Organometallic chemistry, EXAFS, 1157
- Molybdenum
Polyoxometalate, Protonation, Molecular oxide, 2847

- Molybdenum alkylidyne
Tungsten alkylidyne, Electronic structure, Frontier molecular orbitals, Alkoxide, Thiolate, 145
- Molybdenum clusters
Tungsten clusters, Methoxo complexes, X-ray crystal structures, 1553
- Molybdenum complexes
3,5-Di-*t*-butylpyrazolyl, $[pz^{Bu_2'}]Mo(P-Me_3)_4H$, η^2 -Coordination, Mo(PMe₃)₆, 199
- Molybdenum complexes
Benzoinoxime, Dimer, Magnetic moment, Electrochemical properties, 895
- Monoclinic
Trpn, Abpt, Crystal, Octahedral geometry, Intramolecular hydrogen bonding, 3181
- Monodentate bidentate
Phosphorus sulfur ligand, Transition metal complexes, Crystal structures, 361
- Monolayer
Molecular-based magnetism, Diaryl porphyrin, Magnetic property, 2281
- Monomeric compounds
Retro-chloropalladation reaction, Alkynes, Propargyl amines, 1665
- Mononuclear complexes
Thioquinoline units, Coordination polymer, 507
- Monoradicals
Oxphenalenoxyl, Spin topology, Spin density distribution, Molecular spin diversity, Density functional calculation, 2205
- Monte Carlo
Spin-crossover, Bistability, Magnetic field effect, Ising-like model, 2441
- Monte Carlo entropic sampling technique
Spin-transition, Thermal hysteresis loop, Ising-like Hamiltonian, 2453
- Mössbauer spectroscopy
Fe-Bisdithioblene complexes, Magnetic susceptibility, X-ray crystal structures, 2481
- MP2 method
Geometry optimization, Cyclic phosphazenes, Stable non-planar conformations, Electronic structures, 3243
- MS
Copper(I), Diphosphines, Perfluorinated carboxylates, NMR, 3389
- Multi-directional ligand
Zn(II) complexes, Co(II) complexes, Crystal structures, Polydentate pyridine ligand, N-donor ligand, 205
- Multi-functional ligand
(Arene)ruthenium, Tristhiolato, Mercaptophenol, 543
- Muon
BETS, Superconducting transition, 2307
- Muon-spin rotation
Organic magnet, Nanodisc, Quantum tunneling, Molecular magnet, 1973
- MVS
Europium, Ytterbium, Dissolution in ammonia, Aryloxides, 1425
- N*-Alkylthiourea
Cadmium(II) complexes, Synthesis, X-ray structures, 595
- Nanocomposite
Polyvinylpyridine, Maghemite, Nanoparticles, Magnetic properties, 2457
- Nanocrystallites
Cadmium sulfide, Single-source precursor method, 3129
- Nanodisc
Muon-spin rotation, Organic magnet, Quantum tunneling, Molecular magnet, 1973
- Nanomagnet
Single-molecule magnets, Magnetization tunneling, Superparamagnet, Nickel, 1727
- Nanomagnet
Single-molecule magnets, Magnetization tunneling, Superparamagnet, Manganese, 1857
- Nanomagnet
Single-molecule magnet, Quantum tunneling of magnetization, Superparamagnet, Polynuclear iron complex, 1865
- Nanomagnets
Single-molecule magnets, Magnetic anisotropy, Density-functional calculations, Spin-orbit coupling, 1871
- Nanomagnet
Single molecule magnets, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1889
- Nanomagnet
Single molecule magnets, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1897
- Nanomagnet
Single-molecule magnets, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1911
- Nanoparticles
Nanocomposite, Polyvinylpyridine, Maghemite, Magnetic properties, 2457
- Nanoporous material
4-Hydroxypyrimidine, *N,N*-exobidentate mode, Crystal sponge, 3051
- Nanotubes
 Li_xMoSo_2 , Magnetic properties, Susceptibility, 2293
- Naphthalazoinimidazole
H-bonding, Coordination compounds, Organomercuration, X-ray structure, 1367
- Naphthalazoinimidazoles
Copper(I) complexes, X-ray structures, Electrochemistry, EHMO, 247
- ¹⁵N atom
Neutral radical, Diazaphenalenyl, Gyromagnetic ratio, Spin structure, Columnar structure, 2199
- Natural orbital
Superconductivity, Electron-doping, HDFT, Infinite layer, Density, 2191
- N*-carbazolylacetate
Carbazole, Crystal structures, Complexes, Photoluminescence, 397
- N*(4)-dimethylthiosemicarbazone complexes
Iron(III), Cobalt(II), Nickel(II), Copper(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridineformamide, 83
- N-donor ligand
Zn(II) complexes, Co(II) complexes, Crystal structures, Multi-directional ligand, Polydentate pyridine ligand, 205
- Neocuproine
Ternary manganese(II) complexes, 1,10-Phenanthroline, Indole-2-carboxylic acid, Crystal structures, IR, Catalytic activity, 1461
- Neodymium
Fluoride, Praseodymium, X-ray structure, Titanium, 575
- Neodymium
Praseodymium, 2,2':6',2'-Terpyridine, 1,10-Phenanthroline, X-ray crystal structures, 1489
- Neodymium complexes
Hydrothermal synthesis, X-ray crystallography, IR, TGA, Supramolecular structures, 981
- Network solids
Coordination polymers, Crystal structures, Transition metal ions, 4,4'-bipyridine, 2821
- Neutral radical
Diazaphenalenyl, ¹⁵N atom, Gyromagnetic ratio, Spin structure, Columnar structure, 2199
- Neutron powder diffraction
X-ray diffraction, Pyrazine, Quantum spin chain, Copper, 2045
- Ni dithiolenes
Se-donors, Raman, X-ray, Electrochemistry, 2175
- Ni(III) thiolate complexes
Crystal structures, Magnetism, Spin canting, 299
- Ni₂(dta)₄I
Hybrid density functional theory, MMX, Effective exchange interaction, 2027
- Nickel
Cobalt, Copper, Tetra(3-*iso*-propylpyrazolyl)borate, Structures, Magnetism, 1645
- Nickel
Single-molecule magnets, Nanomagnet, Magnetization tunneling, Superparamagnet, 1727
- Nickel
Magnetic measurement, Schiff base, Cubane structure, Copper, Manganese, 2359
- Nickel
Hydroxyacetophenone, Thiosemicarbazone, Copper, Crystal structures, Metalloc(II) complexes, 2831
- Nickel cluster
Bis(diphenylphosphino)amine, Bis(diphenylphosphino)methane, 1641
- Nickel complexes
Dithiocarbamate complexes, Sulfonamide, Crystal structure, 1561

- Nickel complexes
Diphosphine complexes, Molecular structures, Crystal packing, 1567
- Nickel complexes
Nitronyl nitroxide, Tetrazole, Manganese complexes, 1965
- Nickel complexes
Macrocyclic complexes, Template synthesis, Hexaazacyclohexadecane, 2633
- Nickel(II)
Iron(III), Cobalt(II), Copper(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridineformamide, *N*(4)-dimethylthiocarbazone complexes, 83
- Nickel(II)
Supramolecular, X-ray structure, Guanidinobenzimidazole derivatives, 735
- Nickel(II)
Manganese(II), Zinc(II), Crystal structures, 2-Methylactato complexes, Thermal analysis, 1051
- Nickel(II)
Dithiophosphates, Syntheses, X-ray structures, 1341
- Nickel(II)
 β -Alanine, Dipeptides, Tripeptides, Palladium(II), Stability constants, 2607
- Nickel(II) complexes
Cobalt(III) complexes, Synthesis, Spectroscopy, Thiosemicarbazone, X-ray crystallography, 383
- Nickel(II) complexes
Binucleating ligand, Electrochemistry, 989
- Nickel(II) complexes
Macrocycle, Schiff base, Template, Mixed-donor macrocycles, Azacrown ethers, 1481
- Nickel(II) dithiocarbonate complexes
Nickel(II) xanthates, Trinuclear nickel-sulfur cluster, Tetraphenylidiphosphinoethane, X-ray structures, 2895
- Nickel(II) ion
Phosphonates, Octadecyl, Layered compounds, Magnetic properties, Weak ferromagnet, 2463
- Nickel(II) xanthates
Trinuclear nickel-sulfur cluster, Nickel(II) dithiocarbonate complexes, Tetraphenylidiphosphinoethane, X-ray structures, 2895
- Niobium diphthalocyanine
Niobium(V) complexes, Crystal structures, UV-Vis spectroscopy, 'Stapled' sandwich-type diphthalocyanine, Raman spectroscopy, 313
- Niobium(V) complexes
Niobium diphthalocyanine, Crystal structures, UV-Vis spectroscopy, 'Stapled' sandwich-type diphthalocyanine, Raman spectroscopy, 313
- Nitrate
Praseodymium complexes, Lanthanide, 2,2'-Bipyridine, Thiocyanate, Chloride, Dithiocarbamate, Crystal structures, 347
- Nitrilotriacetate
Iminodiacetate, Iron, Hydrogen sulfide, Crystal structures, 941
- Nitrilotriacetate
Lanthanides, Divalent europium, Structures, Spectroscopy, 2761
- Nitrilotriacetate complexes
Heteropolynuclear cobalt(III)-dysprosium(III) complexes, Oxalato-bridged complexes, X-ray structures, Diffuse reflectance spectra, 1455
- Nitro
Copper(II), Mixed-ligand complexes, Crystal structures, π,π -Stacking, Benzyl, 1039
- Nitronyl nitroxide
Single-component organic ferrimagnet, Magnetic susceptibility, Electron spin resonance, Perturbation treatment, Triradical, 1809
- Nitronyl nitroxide
Organic ferrimagnet, Magnetic susceptibility, Charged biradical, Electron spin resonance, Supramolecular crystal engineering, 1817
- Nitronyl nitroxide
Molecule-based magnetism, Thieno[3,4-*d*]imidazole, Solution ESR spectra, Magnetic interaction, 1823
- Nitronyl nitroxide
Tetrazole, Manganese complexes, Nickel complexes, 1965
- Nitronyl nitroxide
Terpyridine, Organic based magnets, EPR radicals, Open-shell molecules, Semiempirical (AM1) calculations, 2099
- Nitronyl nitroxide
Radical ions, Magnetism, Organic crystals, Ionic crystals, 2343
- Nitronyl nitroxide
Imino nitroxide, Cu(II) complexes, Molecular magnets, 2499
- Nitronyl nitroxide radical
Organic magnetism, ^1H MAS NMR, Fermi contact shift, Electron spin density distribution, DFT calculation, 1989
- Nitrosation
Amino acid, Dinitrogen trioxide, Spectrophotometry, 1059
- Nitrosyl
Rhenium, Oxo, Bipyridine, X-ray structures, Electronic structures, 2573
- Nitrosyl
Iron, Dithiocarbamate, Diselenocarbamate, Thioselenocarbamate, ^{13}C NMR, ^{15}N NMR, 3423
- Nitrosyl ligands
Cobalt complexes, Crystal structures, Carborane ligands, 109
- Nitroxide
Molecular magnets, Copper(II), Imidazole, Exchange coupling, 1957
- Nitroxide
Ferromagnetic interaction, Supramolecule, Channel, Ligand, Free radical, 2133
- Nitroxide
Chirality, Circular dichroism, Manganese, 2349
- Nitroxide
Molecular magnets, Copper(II), Manganese(II), Cobalt(II), Magnetic exchange coupling, 2487
- Nitroxide
Ferromagnetic interaction, Ligand, Free radical, ESR, 2557
- Nitroxides
Coordination polymers, TEMPO, Copper(II) complexes, Manganese(II) complexes, 2363
- N ligand
Ruthenium, Bridging ligands, Heterometallic complexes, EXAFS spectroscopy, 2799
- NLO
Radical, Second-order, HRS, Electrochemistry, 1851
- ^{15}N NMR
Zn(II) complexes, Purine, HETCOR, CPMAS, Coordination shift, 391
- ^{15}N NMR
Iron, Dithiocarbamate, Diselenocarbamate, Thioselenocarbamate, Nitrosyl, ^{13}C NMR, 3423
- NMR
ZnSe, TGA, Structure, 489
- NMR
Poly(3-pyrazolyl)borate cobalt(II) complexes, Structures, 581
- NMR
Crystal structures, Polyoxometalate, Phosphotungstate, Heteropolyanion, 933
- NMR
Macrocycles, Lanthanide complexes, Chiral complexes, 2877
- NMR
Dithiocarbimates, Zinc complexes, Crystal structure, IR-spectroscopy, 3355
- NMR
Trans-platinum complexes, Cytotoxic activity, (hydroxymethyl)-Pyridine, 3379
- NMR
Copper(I), Diphosphines, Perfluorinated carboxylates, MS, 3389
- NMR DOSY
ATP-cisplatin complexes, pH variation, Long range $^1\text{H}-^{15}\text{N}$ HMQC, 611
- NMR spectra
Antimony, Bromine, Isobutyl group, Ring-ring equilibrium, X-ray diffraction, 1719
- NMR spectroscopy
Bis(2-pyridylthio)methane, Cadmium(II) complexes, Eight-membered chelate rings, X-ray diffraction, Cadmium(II) halides, 1077
- NMR spectroscopy
Cobalt(III) complexes, Cobaloximes, Diphenylglyoximate ligands, Dimethylglyoximate ligands, Crystal structures, 2809

- NMR spectroscopy**
Organotin compounds, Aryltin compounds, FT-IR spectroscopy, X-ray crystal structure, 3523
- NMR spectroscopy**
Boranes, Heteroboranes, Geometry optimisation, GIAO, 3541
- N,N'*-Dimethyl-2,2'-biimidazole
Pd(II) and Pt(II) complexes, Pt(I) complexes, 2,2'-Biimidazole, Crystal structure, DNA interactions, Solvolysis by DMSO, 1113
- N,N'*-dimethylurea metal complexes
Hydrogen bonded coordination complexes, Lanthanide(III) complexes, Spectroscopic characterisation, X-ray crystal structures, 825
- N,N'*-disubstituted diaza-18-crown-6
Copper complex, Crystal structure, 3249
- N,N'*-exobidentate mode
4-Hydroxypyrimidine, Nanoporous material, Crystal sponge, 3051
- $\kappa^2 N:\kappa^3 N$ Bridging fashion
Complexed ligand, Local C_2 symmetry, Ferromagnetic behavior, 1789
- Non-bonded interaction
2,5-Dimercapto-4-phenyl-1,3,4-thiodiazole, Organogermanium(IV), Crystal structures, X-ray crystallography diffraction, 2767
- Non-covalent interactions
Supramolecular architecture, Lanthanide, Glycine, 1,10-Phenanthroline, Coordination compound, 2617
- Non-Kekulé molecule
Aromatic polyamine, Polycondensation, Aminium cationic radical, Palladium-catalyzed amination, 1945
- Noncentrosymmetric structures
Coordination polymer, Metal-organic framework, Inclusion compounds, Rectangular grid, Bifunctional ligand, 235
- Noncollinear molecular magnetism
Generalized spin orbital, Density functional theory, Tetrahedral manganese clusters, Hybrid methods, Three-dimensional spin structure, 2013
- Nonporous solids
Iorn, Crystal sturcture, 725
- N*-phenylsalicylideneiminato
Isopropoxo, Aluminium(III) atoms, Molecular structures, 2943
- N*-(2-pyridinylmethylene)cyclohexylamine
p-Cymene, Hexamethylbenzene, *N*-(2-pyridinylmethylene)phenylamines, Schiff base, Ruthenium, 605
- N*-(2-pyridinylmethylene)phenylamines
p-Cymene, Hexamethylbenzene, *N*-(2-pyridinylmethylene)cyclohexylamine, Schiff base, Ruthenium, 605
- N*-Salicylidene derivative
Copper(II)-Schiff base complexes, X-ray structures, Ternary copper(II) complexes, Toxicity of copper(II) complexes, *Drosophila melanogaster*, 403
- NS-donors
Ruthenium(II) complexes, Thiosemicarbazones, X-ray crystal structures, Biological activity, 447
- Nuclear magnetic resonance
Fe8, Quantum tunneling, 2277
- Nuclear relaxation
Molecular magnet, Quantum tunnelling, 1745
- o*-aminophenol
Pyridazine, Quasi-reversible, Schiff base, 665
- Octabromoporphyrins
Tetratolylporphyrins, Tetranaphthylporphyrins, Zn(II) porphyrins, Electronic properties, Fluorescence properties, Electrochemical studies, 3145
- Octachlorodirhenate
Rhenium, Quadruple bond, 1547
- Octacyanometallates
Cyano-bridged coordination compounds, Coordination polymers, Crystal structures, Molecular magnets, 2183
- Octadecyl
Phosphonates, Nickel(II) ion, Layered compounds, Magnetic properties, Weak ferromagnet, 2463
- Octahedral complexes
Bis(phosphino)amines, ruthenium, Crystal structures, Cyclic voltammetry, 587
- Octahedral geometry
Trpn, Abpt, Monoclinic, Crystal, Intramolecular hydrogen bonding, 3181
- Octahedral structures
Ruthenium(II) carbonyl complexes, Phosphine-phosphinesulfide, Bidentate chelating ligand, X-ray crystal structures, Steric effect, 2725
- Octahydrotriborate(2-)
Boron, Carbonyl complexes, Manganese, Organophosphine ligands, Rhenium, X-ray structures, 1627
- Octakis(2-pyridyloxy)cyclotetraphosphazene
Octakis(4-methyl-2-pyridyloxy)cyclotetraphosphazene, Inclusion compounds, X-ray structures, 189
- Octakis(4-methyl-2-pyridyloxy)cyclotetraphosphazene
Octakis(2-pyridyloxy)cyclotetraphosphazene, Inclusion compounds, X-ray structures, 189
- Octamolybdate subunits
Hydrothermal synthesis, Mixed metal oxides, Hydrothermal reactions, 177
- Octamolybdates
Polyoxometallates, Keggin-type anions, Imidazole ligands, Copper, 3091
- 8-OHdG
Chromium picolinate, Lipid peroxidation, Rats, DNA, 455
- O ligands
Titanium, Cyclopentadienyl ligands, Intramolecular coordination, P ligands, Variable-temperature NMR spectroscopy, 2885
- Oligoarylamines
Coupling reactions, Electrochemical methods, UV-Vis absorption, Charged high-spin systems, Organic mixed-valence system, 2003
- Oligomers
Supramolecular chemistry, Copper, Self-assemblies, Coordination chemistry, 2985
- Oligovanadates
L-Glutamic acid, *L*-Glutamine, Decomposition, Electronic spectra, Crystal structures, 1415
- One-dimensional
Lead, Dicyanamide, Coordination polymer, Coordination mode, Double-stranded, 917
- One-dimensional (1D) metal chain complexes
Magnetic effective density functional, MEDF, Effective exchange integrals, 2019
- Open-framework
Hydrothermal reaction, Crystal structure, Succinate, Bipy, 3097
- Open-shell molecules
Terpyridine, Organic based magnets, EPR radicals, Nitronyl nitroxide, Semiempirical (AM1) calculations, 2099
- Optically active sulfur-bridged complexes
Binuclear Co(III)-Pd(II) and Co(III)-Pt(II) complexes, 2,2'-Bipyridine complexes, Crystal structures, Spectrochemistry, 1507
- Organic based magnets
Terpyridine, EPR radicals, Open-shell molecules, Nitronyl nitroxide, Semiempirical (AM1) calculations, 2099
- Organic crystals
Nitronyl nitroxide, Radical ions, Magnetism, Ionic crystals, 2343
- Organic ferrimagnet
Nitronyl nitroxide, Magnetic susceptibility, Charged biradical, Electron spin resonance, Supramolecular crystal engineering, 1817
- Organic ferromagnet
Pressure effect, Curie temperature, Biradical, Exchange interactions, 2287
- Organic magnet
Muon-spin rotation, Nanodisc, Quantum tunneling, Molecular magnet, 1973
- Organic magnetism
Nitronyl nitroxide radical, ^1H MAS NMR, Fermi contact shift, Electron spin density distribution, DFT calculation, 1989
- Organic mixed-valence system
Oligoarylamines, Coupling reactions, Electrochemical methods, UV-Vis absorption, Charged high-spin systems, 2003
- Organic polymer
Itinerant ferromagnetism, Flat band, Polyaminotriazole, Molecular crystal, First-principles calculation, 1883
- Organic superconductor
Molecular magnetism, Effective exchange integral, Ab initio MO method, Density functional method, BEDT-TTF, BETS, TMTTF, TMTSF, 2051

- Organic-based magnet**
Spin glass, Tetracyanoethylene, Low-dimensional magnetism, Susceptibility, Fractal cluster, 1751
- Organodiazenido**
Rhenium, X-ray structures, Electronic structures, 3307
- Organogermanium(IV)**
2,5-Dimercapto-4-phenyl-1,3,4-thiodiazole, Non-bonded interaction, Crystal structures, X-ray crystallography diffraction, 2767
- Organolanthanide complex**
Ytterbium, β -Diketiminato ligand, Synthesis, Crystal structures, 1241
- Organomagnetic conductors**
Ab initio MO calculation, Hybrid-DFT, Electronic structure, Effective exchange integral, 2039
- Organomercuration**
Naphthalazoinimidazole, H-bonding, Coordination compounds, X-ray structure, 1367
- Organometallic chemistry**
Molybdenum, Rhodium, Polyoxometalate, EXAFS, 1157
- Organophosphine ligands**
Boron, Carbonyl complexes, Manganese, Octahydrotriborate(2-), Rhenium, X-ray structures, 1627
- Organotin**
Phosphine oxide, Crystal structures, Chelation, 3277
- Organotin compounds**
Aryltin compounds, FT-IR spectroscopy, NMR spectroscopy, X-ray crystal structure, 3523
- Organotin(IV)**
Bis(imidazolyl)borate ligand, Tin-119 NMR, Electrospray mass spectroscopy, 499
- Osmium**
Metallation, Methyl substituent, Trimethylthiazole, X-ray structures, 355
- Osmium**
Cyclopentadienyl, Chelating ligands, Bipyridine, Phenanthroline, 1391
- Oxaaza macrocycles**
Copper complexes, Template synthesis, Direct synthesis, Schiff-base, 1701
- μ -Oxalato-bridge**
Copper(II), Chromium(III), Iron(III), Heterotrinuclear complexes, Magnetism, 3223
- Oxalato-bridged complexes**
Heteropolynuclear cobalt(III)-dysprosium(III) complexes, Nitrilotriacetate complexes, X-ray structures, Diffuse reflectance spectra, 1455
- Oxalato complexes**
Synthesis, Crystal structures, Magnetic properties, 3115
- Oxalato-bridged complexes**
Ab initio calculations, CASPT2, Difference dedicated CI, Magnetic properties, Hetero-bimetallic complexes, 2409
- Oxamido-bridged**
Heterobinuclear complexes, Spin-doublet ground state, Homotrinuclear nickel(II) complexes, Supramolecular structures, 2911
- Oxidation**
Dipyridinated manganese(II) phthalocyanine, Crystal structures, Magnetic properties, Antiferromagnetic interactions, UV-Vis spectroscopy, 2689
- Oxidative addition**
Platinum, Imine ligands, Chiral compounds, Steric effects, Crystal structure, 3363
- Oximates**
Rhodium, Rhodoximes, Spectral properties, Crystal structures, 3195
- Oxo**
Rhenium, Nitrosyl, Bipyridine, X-ray structures, Electronic structures, 2573
- Oxo-centred trimers**
Cobalt acetate, Ancillary ligands, X-ray crystal structures, 947
- Oxo-complexes**
Rhenium(V), Phosphinite ligands, Alkoxo-complexes, Crystal structures, 1711
- Oxo-complexes**
Rhenium complexes, Benzotriazole complexes, Crystal structures, Spectroscopic investigation, 2869
- Oxomolybdenum(IV) complexes**
Thiocarbodihydrazone and diacetylidydrzones ligands, X-ray crystal structure, Oxotransfer property, 3075
- Oxophenalenoxyl**
Monoradicals, Spin topology, Spin density distribution, Molecular spin diversity, Density functional calculation, 2205
- Oxophenalenoxyl**
Radical dianion, Redox-based spin diversity, Spin structure, Charge fluctuation, Density functional calculation, 2209
- Oxotransfer property**
Oxomolybdenum(IV) complexes, Thiocarbodihydrazone and diacetylidydrzones ligands, X-ray crystal structure, 3075
- Oxoverdazyl**
1,6-Dithiapyrene, Imino nitroxide, Spin structure, Density functional theory, ESR/ENDOR/TRIPLE spectroscopy, 2219
- Oxygen atom transfer reaction**
Hydroperoxy-iron(III) species, Spin-state of iron(III) ion, Heme-oxygenase, 293
- Oxygen fixation**
Electron-pair repulsion, Polarizing molecular mechanics, Iron-porphyrin complex, Heme charge, CO/O₂ discrimination, 1091
- P ligands**
Titanium, Cyclopentadienyl ligands, Intramolecular coordination, O ligands, Variable-temperature NMR spectroscopy, 2885
- Palladium**
Diimine, Diazadiene, Chelate complexes, 1447
- Palladium**
Carbenes, Platinum, Iodine, Crystal structures, Luminescence, 1515
- Palladium**
Platinum, Chirality, Bidentate nitrogen ligands, Antitumor compounds, Crystal structures, 1529
- Palladium**
Pyridylimine, Pyridyl-2-methanamine, Ethylene polymerization, HDPE, Polyethylene, 2855
- Palladium and nickel complexes**
Metalla-macrocycles, Templating agents, Triphenylphosphine, Anion template, Hydrogen bonding, 2991
- Palladium complexes**
Insertion, Sulfur dioxide, Crystal structures, 805
- Palladium(II)**
Iron(III), Cobalt(II), Nickel(II), Copper (II), Platinum(II), Spectral properties, Crystal structures, 2-Pyridineformamide, N(4)-dimethylthiosemicarbazone complexes, 83
- Palladium(II)**
Glutathione, L-Cysteine, Sodium dodecyl sulfate, Complex formation, Micellar catalysis, 279
- Palladium(II)**
 β -Alanine, Dipeptides, Tripeptides, Nickel(II), Stability constants, 2607
- Palladium(II) acetate**
Cyclometallation, Benzylamine, 287
- Palladium(II) cyclometallated complexes**
Crystal and molecular structures, Ammonium hexafluorophosphate, Chelating, Phosphines, 241
- Palladium-catalyzed amination**
Aromatic polyamine, Polycondensation, Aminium cationic radical, Non-Kekulé molecule, 1945
- Palmitic acid**
Lead soaps, Hydrothermal, Stearic acid, Red lead, Lead-tin yellow, 3171
- p-Cymene**
Hexamethylbenzene, N-(2-pyridinylmethylene)phenylamines, N-(2-pyridinylmethylene)cyclohexylamine, Schiff base, Ruthenium, 605
- p-Cymene**
Hexamethylbenzene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1,10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- Pd(II) and Pt(II) complexes**
Pt(I) complexes, 2,2'-Biimidazole, N,N'-Dimethyl-2,2'-biimidazole, Crystal structure, DNA interactions, Solvolysis by DMSO, 1113
- [PdCl₂{(C₄H₃S)₃As}₂]
2-Thienyl derivatives, Arsenic, Antimony, X-ray structures, 549
- Pentacoordinate**
Cyclodiphosphazanes, X-ray structures, 843

- Pentacyanoferrate complexes
Magnetic properties, Square grid network, Magnetometry, 2125
- Pentadentate Rh(III) complex
Crystal structure, Ring conformations, 3265
- Pentadentate sulfur–nitrogen ligand
Zinc(II) and cadmium(II) complexes, 2,6-Diacetylpyridine Schiff base of S-benzyl-dithiocarbazate, 3433
- Pentafluorophenylthiolate
Rhodium, 3,5-Dimethylpyrazole, Mercury, Crystal structures, 3293
- Pentafluoropropionate
Cyanide, Triflate, Trifluoroacetate, Silver, 217
- Pentamethylcyclopentadienyl
Indenyl, Ruthenium, Molecular structures, Bipyridine, Phenanthroline, 307
- Peptide
Copper, Creatinine, Benzimidazole, Bioactivity, 3255
- Perchlorate
SERS, Terpyridine, 1673
- Perfluorinated carboxylates
Copper(I), Diphosphines, NMR, MS, 3389
- Perturbation treatment
Single-component organic ferrimagnet, Magnetic susceptibility, Electron spin resonance, Nitronyl nitroxide, Triradical, 1809
- Pesticides
Antiprotooans, 3,5-dimethyl-tetrahydro-2H-1,3,5-thiadiazine-2-thione, 1689
- pH variation
ATP-cisplatin complexes, NMR DOSY, Long range ^1H - ^{15}N HMQC, 611
- Phase transfer catalyst
Ru(II) complex, Solid state, Ligand exchange reaction, 3289
- Phenanthroline
Pentamethylcyclopentadienyl, Indenyl, Ruthenium, Molecular structures, Bipyridine, 307
- 1,10-Phenanthroline
Europium complex, X-ray crystallography, Photophysical property, Succinamic acid, 323
- 1,10-Phenanthroline
Arylazimidazoles, Ruthenium(II) complexes, Electrochemistry, X-ray structures, EHMO, 849
- Phenanthroline
Cyclopentadienyl, Osmium, Chelating ligands, Bipyridine, 1391
- 1,10-Phenanthroline
Ternary manganese(II) complexes, Neocuproine, Indole-2-carboxylic acid, Crystal structures, IR, Catalytic activity, 1461
- 1,10-Phenanthroline
Praseodymium, Neodymium, 2,2':6',2'-Terpyridine, X-ray crystal structures, 1489
- 1,10-Phenanthroline
Supramolecular architecture, Lanthanide, Glycine, Coordination compound, Non-covalent interactions, 2617
- 4,7-Phenanthroline
Synthesis, Coordination polymers, Crystal structures, Cu(I), 3015
- 10-Phenanthroline
p-Cymene, Hexamethylbenzene, Ruthenium, Terpyridine, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1,2,3-Bis(α -pyridyl)quinoxaline, 3155
- 1,10-Phenanthroline
Manganese(II) complexes, 2,2-Dimethylpentanedioic acid, 3,3-Dimethylpentanedioic acid, 2,2'-Bipyridine, Crystal structure, Anti-*Candida* activity, 3187
- Phenol
Synthesis, Equilibria, Dinuclear complexes, Polyamines, Crystal structure, 1135
- Phenolate ligands
Alkoxide complexes, Tungsten, Crystal structures, 2755
- Phenoxyl
Conjugated polymer, Polyradical, Poly(aryleneethynylene), Anthracene, High-spin polymer, 1845
- Phenylazoisoquinolin
Ruthenium(II) complexes, Isomers, X-ray structures, 535
- Phosphine ligands
Dirhenium complexes, Metal–metal multiple bonds, Crystal structures, Face-sharing biocatahedral complexes, Thiolate ligands, 2625
- Phosphine oxide
Organotin, Crystal structures, Chelation, 3277
- Phosphine–phosphinesulfide
Ruthenium(II) carbonyl complexes, Bidentate chelating ligand, X-ray crystal structures, Octahedral structures, Steric effect, 2725
- Phosphines
Co-ordination chemistry, Platinum, Catalysis, Hemi-labile, Chelate ligands, 19
- Phosphines
Palladium(II) cyclometallated complexes, Crystal and molecular structures, Ammonium hexafluorophosphate, Chelating, 241
- Phosphinite ligands
Rhenium(V), Oxo-complexes, Alkoxo-complexes, Crystal structures, 1711
- Phosphonate complexes
Acidity constants, Charge repulsion, Pyrimidine nucleotide analogue, Stability constants, Stacking interactions, Ternary complexes, 1067
- Phosphonates
Octadecyl, Nickel(II) ion, Layered compounds, Magnetic properties, Weak ferromagnet, 2463
- Phosphorus sulfur ligand
Monodentate bidentate, Transition metal complexes, Crystal structures, 361
- Phosphorylic ligands
Carbacylamidophosphates, Self-complementary molecules, Supramolecular chemistry, 1221
- Phosphotungstate
Crystal structures, Polyoxometalate, NMR, Heteropolyanion, 933
- Photocatalyst
Titania, Electronic spectra, Stearic acid, 35
- Photochromic effect
Metastable states, Pseudo-Jahn–Teller effect, Electron transfer, 2527
- Photodynamic
Recrystallization, MgPc(H₂O), 1167
- Photoisomerization
Ruthenium(II)-bipy derivative complexes, 1,4-bis(diphenylphosphino)butane, 3205
- Photoluminescence
Carbazole, *N*-carbazolylacetate, Crystal structures, Complexes, 397
- Photolysis
Carbenes, Copper, Assembly, Spin-glass, Magnetic properties, 1877
- Photophysical property
Europium complex, X-ray crystallography, 1,10-Phenanthroline, Succinamic acid, 323
- Phthalocyanine
Unsymmetrical, Substituted, Trimeric, Metal complex, s-Triazine, 819
- Phthalocyanines
Porphyrazines, Magnesium, Copper, Zinc, Electrochemistry, 3083
- Picolinic acid derivatives
VO(IV) complexes, Insulin-mimics, X-ray crystallography, Speciations, 27
- Platinum
Co-ordination chemistry, Catalysis, Hemilabile, Phosphines, Chelate ligands, 19
- Platinum
Carbenes, Palladium, Iodine, Crystal structures, Luminescence, 1515
- Platinum
Palladium, Chirality, Bidentate nitrogen ligands, Antitumor compounds, Crystal structures, 1529
- Platinum
Imine ligands, Chiral compounds, Oxidative addition, Steric effects, Crystal structure, 3363
- Platinum(II)
Iron(III), Cobalt(II), Nickel(II), Copper (II), Palladium(II), Spectral properties, Crystal structures, 2-Pyridineformamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- p*-(nitro)Phenyl nitronyl nitroxide
Molecule-based magnets, Bulk ferromagnetism, Theoretical analysis, Magnetic structures, 1935
- Polarised neutron diffraction
[Fe(ptz)₆](BF₄)₄, Light-induced excited spin state trapping, Spin density, 2155
- Polarizing molecular mechanics
Electron-pair repulsion, Iron–porphyrin complex, Heme charge, Oxygen fixation, CO/O₂ discrimination, 1091
- Poly(3-rpyrazolyl)borate cobalt(II) complexes
Structures, NMR, 581

- Poly(aryleneethynylene)
Conjugated polymer, Polyradical, Phenoxyl, Anthracene, High-spin polymer, 1845
- Poly(pyrazolyl)borate ligands modified
Hydrogen bonding, CH···O bonding, CH···N bonding, CH···Cl bonding, Supramolecular interactions, 1123
- Polyamines
Synthesis, Equilibria, Dinuclear complexes, Phenol, Crystal structure, 1135
- Polyaminotriazole
Itinerant ferromagnetism, Organic polymer, Flat band, Molecular crystal, First-principles calculation, 1883
- Polycarbene
Bis(9-(10-phenyl)anthryl)carbene, Ab initio method, Effective exchange integral, AO-fitting, AO-approach, 2067
- Polycondensation
Aromatic polyamine, Aminium cationic radical, Non-Kekulé molecule, Palladium-catalyzed amination, 1945
- Polydentate pyridine ligand
Zn(II) complexes, Co(II) complexes, Crystal structures, Multi-directional ligand, N-donor ligand, 205
- Polyether macrocycles
Cryptands, Xanthate, Methyl viologen, 795
- Polyethylene
Palladium, Pyridylimine, Pyridyl-2-methanimine, Ethylene polymerization, HDPE, 2855
- Polymer
Lanthanides, Amides, Compound, Catalysis, Polymerization, 1019
- Polymetallic complexes
Solid state structures, Synthesis, Spectroscopic data, 3403
- Polymer length
Borate-polysaccharide complexes, Speciation, Conformation, ^{11}B NMR, 909
- Polymeric
Crystal structures, Mn compounds, Solid state, 133
- Polymeric
Cadmium, Tetradeinate, Quadradeinate, Schiff-base, 3213
- Polymeric network
Ligands, Molecular assemblies, Metal precursors, 3009
- Polymeric tubes
2,2'-Bipyridine, Cadmium(II) complex, Double-helix, Isophthalate, Zinc(II) complex, 1231
- Polymerization
Lanthanides, Amides, Compound, Catalysis, Polymer, 1019
- Poly metallic complexes
Solid state structures, Synthesis, Spectroscopic data, 3403
- Polymethylenediamine
Copper, Tetradeinate, Quadradeinate, Schiff-base, Salicylidene, 887
- Polynitrite ligands
Syntheses, Crystal structures, Zinc complexes, Fluorescence, 493
- Poly nuclear iron complex
Single-molecule magnet, Quantum tunneling of magnetization, Nanomagnet, Superparamagnet, 1865
- Polyoxometalate
Crystal structures, Phosphotungstate, NMR, Heteropolyanion, 933
- Polyoxometalate
Molybdenum, Rhodium, Organometallic chemistry, EXAFS, 1157
- Polyoxometalate
Protonation, Molybdenum, Molecular oxide, 2847
- Polyoxometallates
Octamolybdates, Keggin-type anions, Imidazole ligands, Copper, 3091
- Polyoxotungstate
 ^{183}W and ^{17}O NMR shifts, EHMO calculations, 1183
- Polypicolamine ligands
Ruthenium(II) complexes, Tricyanomethane anions, X-ray crystallography, 875
- Polyradical
Conjugated polymer, Phenoxyl, Poly(aryleneethynylene), Anthracene, High-spin polymer, 1845
- Polyvinylpyridine
Nanocomposite, Maghemite, Nanoparticles, Magnetic properties, 2457
- Porphyrazines
Phthalocyanines, Magnesium, Copper, Zinc, Electrochemistry, 3083
- Porphyrins
Thin films, Zirconium phosphonates, Diffraction gratings, 3065
- Post-source decay
Tellurium, Sulfur, Clusters, Laser ablation synthesis, Mass spectrometry, 2601
- Potassium
Lithium, Sodium, Amide ligands, 12-Crown-4, Crystal structures, 3507
- Potentiometry
Guanidinoacetic acid, Guanidino-carboxylate interactions, Ternary complexes, Stability constants, Copper(II), 225
- Potentiometry
Macrocyclic compounds, Transition metal ions, Complexation, Conductometry, 569
- PPh₄ salt
Single-molecule magnet, Single crystal X-ray analysis, Mn₁₂ complexes, a.c. and d.c. magnetic susceptibility, 2-Thiophenecarboxylic acid, 1795
- Praseodymium
Fluoride, Neodymium, X-ray structure, Titanium, 575
- Praseodymium
Neodymium, 2,2':6',2'-Terpyridine, 1,10-Phenanthroline, X-ray crystal structures, 1489
- Praseodymium complexes
Lanthanide, 2,2'-Bipyridine, Thiocyanate, Chloride, Nitrate, Dithiocarbamate, Crystal structures, 347
- Preparation
Cadmium(II) azido and thiocyanato complexes, Pyridine derivative complexes, Spectra, Crystal structures, 975
- Pressure effect
Organic ferromagnet, Curie temperature, Biradical, Exchange interactions, 2287
- Propargyl amines
Retro-chloropalladation reaction, Monomeric compounds, Alkynes, 1665
- Proton
Interaction, Hydrogen bonding, Intramolecular, 769
- Protonation
Dithiolate complexes, Ruthenium clusters, X-ray structures, 633
- Protonation
Polyoxometalate, Molybdenum, Molecular oxide, 2847
- Protonolysis
Lanthanides, Dications, Divalent, Cyclopentadienyl, Amide, 119
- Prussian-blue analogs
Local magnetic structures, Solid-state ^{13}C NMR, Hyperfine coupling of CN ions, Solid-state high-resolution deuterium NMR, Crystal water molecules, 1981
- Pseudo-halides
Synthesis, Dirhenium, Crystal structures, Di-cation, Amidato, 1281
- Pseudo-Jahn-Teller effect
Photochromic effect, Metastable states, Electron transfer, 2527
- Pt(I) complexes
Pd(II) and Pt(II) complexes, 2,2'-Biimidazole, *N,N'*-Dimethyl-2,2'-biimidazole, Crystal structure, DNA interactions, Solvolysis by DMSO, 1113
- Pteridine
Crystal structures, Complexes, Lumazine, 483
- Purine
Zn(II) complexes, ^{15}N NMR, HETCOR, CPMAS, Coordination shift, 391
- pym, pyrimidine
Malonate, Caboxylate, Magnetic properties, Molecular magnetism, H₂mal, malonic acid, bipym, 2,2'-bipyrimidine, phen, phenantroline, Im, imidazole, MeIm, methylimidazole, 2,4'-bipy, 2,4'-bipyridine, 4,4'-bipy, 4,4&pr, 2111
- Pyrazine
X-ray diffraction, Neutron powder diffraction, Quantum spin chain, Copper, 2045
- Pyrazolylthiosemicarbazone
Iron(III) complexes, Synthesis, X-ray crystal structures, 375
- Pyridazine
Quasi-reversible, Schiff base, *o*-aminophenol, 665

- Pyridazine ligands**
 Copper complexes, Crystal structures, Pyrimidine ligands, Thermogravimetric analysis, Triazine ligands, 419
- Pyridine**
 X-ray crystallography, Metal amide, Silamide, 67
- Pyridine**
 Diphosphino ligands, Chalcogens, Tin(IV), X-ray crystallography, 1585
- Pyridine derivative complexes**
 Cadmium(II) azido and thiocyanato complexes, Preparation, Spectra, Crystal structures, 975
- Pyridine derivative complexes**
 Cadmium(II) pseudohalides, Syntheses, Spectra, Crystal structures, 3137
- 2-Pyridineformamide**
 Iron(III), Cobalt(II), Nickel(II), Copper(II), Palladium(II), Platinum(II), Spectral properties, Crystal structures, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Pyridinyl**
 Biferrocenium, Metallocene, Supramolecule, 1199
- Pyridoxal 5'-phosphate**
 Deamination of amino acids, Diorganotin(IV) complexes, Pyridoxal-pyridoxamine Schiff base, X-ray structures, Antibacterial activity, 53
- Pyridoxal-pyridoxamine Schiff base**
 Deamination of amino acids, Diorganotin(IV) complexes, Pyridoxal 5'-phosphate, X-ray structures, Antibacterial activity, 53
- Pyridyl**
 Crystallography, Hexadentate, Ligand, Helicate, 755
- Pyridyl-2-methanimine**
 Palladium, Pyridylimine, Ethylene polymerization, HDPE, Polyethylene, 2855
- Pyridylimine**
 Palladium, Pyridyl-2-methanimine, Ethylene polymerization, HDPE, Polyethylene, 2855
- Pyrimidine ligands**
 Copper complexes, Crystal structures, Pyridazine ligands, Thermogravimetric analysis, Triazine ligands, 419
- Pyrimidine nucleotide analogue**
 Acidity constants, Charge repulsion, Phosphonate complexes, Stability constants, Stacking interactions, Ternary complexes, 1067
- Pyromellitate**
 Carboxylate, Cobalt, Iron, Magnetism, Manganese, Framework, 1921
- Pyrrole**
 Anion binding, Ferrocene, Self-assembly, Electrochemical sensor, 699
- Pyrroles**
 Supramolecular chemistry, Self-assemblies, Solid state structures, Hydrogen bonds, Molecular recognition, 2963
- pyz, pyrazine**
 Malonate, Caboxylate, Magnetic properties, Molecular magnetism, H₂mal, malonic acid, bipym, 2,2'-bipyrimidine, phen,
- phenanthroline, Im, imidazole, MeIm, methylimidazole, 2,4'-bipy, 2,4'-bipyridine, 4,4'-bipy, 4,4&pr, 2111
- [pz^{Bu'}₂]Mo(PMe₃)₄H
 3,5-Di-*t*-butylpyrazolyl, Molybdenum complexes, η^2 -Coordination, Mo(PMe₃)₆, 199
- Quadridentate**
 Cadmium, Tetradentate, Schiff-base, Polymeric, 3213
- Quadridentate**
 Copper, Tetradentate, Schiff-base, Poly-methylenediamine, Salicylidene, 887
- Quadruple bond**
 Rhenium, Octachlorodirhenate, 1547
- Quantum chemical calculations**
 Double-exchange mechanism, High-spin organic polymer, Spin-polarized nanowire, 1829
- Quantum spin chain**
 X-ray diffraction, Neutron powder diffraction, Pyrazine, Copper, 2045
- Quantum spin chain**
¹³C NMR, S=1/2 antiferromagnet, Cu complex, Molecular magnet, Field-induced excitation gap, 2273
- Quantum tunneling**
 Single molecule magnets, Nanomagnet, Electron paramagnetic resonance, Manganese, 1889
- Quantum tunneling**
 Single molecule magnets, Nanomagnet, Electron paramagnetic resonance, Manganese, 1897
- Quantum tunneling**
 Single-molecule magnets, Nanomagnet, Electron paramagnetic resonance, Manganese, 1911
- Quantum tunneling**
 Muon-spin rotation, Organic magnet, Nanodisc, Molecular magnet, 1973
- Quantum tunneling**
 Hysteresis, Mn clusters, Single-molecule magnets, 2267
- Quantum tunneling**
 Fe8, Nuclear magnetic resonance, 2277
- Quantum tunneling of magnetization**
 Single-molecule magnets, Hysteresis, Jahn-Teller isomers, 1783
- Quantum tunneling of magnetization**
 Single-molecule magnet, Nanomagnet, Superparamagnet, Polynuclear iron complex, 1865
- Quantum tunneling of the magnetic moment**
 Single-molecule magnets, Mn₄, Spin-lattice relaxation, Magnetic order, Very-low-temperature time-dependent specific heat, 2169
- Quantum tunnelling**
 Molecular magnet, Nuclear relaxation, 1745
- Quasi-reversible**
 Pyridazine, Schiff base, *o*-aminophenol, 665
- Quinoxaline**
 Spin ladder, Antiferromagnetic, Copper (II), 2325
- Radical**
 Second-order, NLO, HRS, Electrochemistry, 1851
- Radical**
 Molecular magnetism, Supramolecular, Carboxylate, Co(II) complexes, Hydrogen-bond, 1929
- Radical dianion**
 Oxophenalenoxyl, Redox-based spin diversity, Spin structure, Charge fluctuation, Density functional calculation, 2209
- Radical ions**
 Nitronyl nitroxide, Magnetism, Organic crystals, Ionic crystals, 2343
- Radical salts**
 Tetrathiafulvalene, Bimetallic oxalato complexes, Molecular magnetism, Conducting properties, 2381
- Radical-metal complexes**
 1,3-Diazaphenalenyl, 1,3-Diazaphenalene, X-ray structure analysis, 2215
- Raman**
 Ni dithiolenes, Se-donors, X-ray, Electrochemistry, 2175
- Raman spectroscopy**
 Niobium diphthalocyanine, Niobium(V) complexes, Crystal structures, UV-Vis spectroscopy, 'Stapled' sandwich-type diphthalocyanine, 313
- Rare earths**
 Crystal structures, Lanthanides, Vibration spectra, 271
- Rats**
 Chromium picolinate, 8-OHdG, Lipid peroxidation, DNA, 455
- Reaction**
 Dimeric structures, Lanthanide nitrates, Ligand, 1431
- Receptor**
 Anion, Dendrimer, Electrochemistry, Ferrocene, Supramolecular, 763
- Receptor**
 Anion, Emission intensity, Complexes, Ruthenium, 775
- Recrystallization**
 MgPc(H₂O), Photodynamic, 1167
- Rectangular grid**
 Coordination polymer, Noncentrosymmetric structures, Metal-organic framework, Inclusion compounds, Bifunctional ligand, 235
- Red lead**
 Lead soaps, Hydrothermal, Palmitic acid, Stearic acid, Lead-tin yellow, 3171
- Redox activity**
 Mn^{III}-Schiff base complex, Crystal structures, Hydroquinone, Catechol, 1191
- Redox process**
 Heteropolyoxometalates, Spectroscopy, 2901
- Redox-based spin diversity**
 Oxophenalenoxyl, Radical dianion, Spin structure, Charge fluctuation, Density functional calculation, 2209
- Reorganization energies**
 Mixed-valence, Ruthenium complexes, Intramolecular electron transfer, Inverted region, Energy conversion, 465

- Retro-chloropalladation reaction
Monomeric compounds, Alkenes, Propargyl amines, 1665
- Reversible absorption and desorption of water
Coordination chemistry, Schiff bases, Cd compounds, X-ray structure determination, Hydrogen bonding, 3451
- Rhenium
Quadruple bond, Octachlorodirhenate, 1547
- Rhenium
Boron, Carbonyl complexes, Manganese, Octahydrotriborate(2-), Organophosphine ligands, X-ray structures, 1627
- Rhenium
Nitrosyl, Oxo, Bipyridine, X-ray structures, Electronic structures, 2573
- Rhenium
Organodiazenido, X-ray structures, Electronic structures, 3307
- Rhenium
Clusters, Copper, Sulfur, Selenium, Tellurium, 3383
- Rhenium azo chelates
Azopyrimidine chelates, Rhenium pyrimidine chelates, Rhenium azopyrimidine chelates, 901
- Rhenium azopyrimidine chelates
Azopyrimidine chelates, Rhenium azo chelates, Rhenium pyrimidine chelates, 901
- Rhenium complexes
Mixed-valence, Ruthenium complexes, Intramolecular electron transfer, Energy conversion, 369
- Rhenium complexes
Benzotriazole complexes, Oxo-complexes, Crystal structures, Spectroscopic investigation, 2869
- Rhenium pyrimidine chelates
Azopyrimidine chelates, Rhenium azo chelates, Rhenium azopyrimidine chelates, 901
- Rhenium(V)
Phosphinite ligands, Oxo-complexes, Alkoxo-complexes, Crystal structures, 1711
- Rhodium
Molybdenum, Polyoxometalate, Organometallic chemistry, EXAFS, 1157
- Rhodium
Chiral-at-metal complexes, Configurational stability, Epimerization, X-ray structure analyses, 2639
- Rhodium
Rhodoximes, Oximates, Spectral properties, Crystal structures, 3195
- Rhodium
3,5-Dimethylpyrazole, Pentafluorophenylthiolate, Mercury, Crystal structures, 3293
- Rhodium complexes
Cobalt complexes, Metal–metal bonds, X-ray structure analyses, Electronic structures, Cyclic voltammetry, 3413
- Rhodoximes
Rhodium, Oximates, Spectral properties, Crystal structures, 3195
- Ring conformations
Pentadentate Rh(III) complex, Crystal structure, 3265
- Ring–ring equilibrium
Antimony, Bromine, Isobutyl group, X-ray diffraction, NMR spectra, 1719
- Ru(II) complex
Solid state, Ligand exchange reaction, Phase transfer catalyst, 3289
- Ruthenium
Clusters, Sensors, ArgoGel resins, Supported transition metals, Gas sensing, 3
- Ruthenium
Copper, Silver, 2,2'-Bipyridine, Metallocstar, X-ray, 93
- Ruthenium
Pentamethylcyclopentadienyl, Indenyl, Molecular structures, Bipyridine, Phenanthroline, 307
- Ruthenium
p-Cymene, Hexamethylbenzene, *N*-(2-pyridinylmethylene)phenylamines, *N*-(2-pyridinylmethylene)cyclohexylamine, Schiff base, 605
- Ruthenium
Anion, Receptor, Emission intensity, Complexes, 775
- Ruthenium
N ligand, Bridging ligands, Heterometallic complexes, EXAFS spectroscopy, 2799
- Ruthenium
p-Cymene, Hexamethylbenzene, Terpyridine, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1, 10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- Ruthenium clusters
Dithiolate complexes, Protonation, X-ray structures, 633
- Ruthenium complexes
Mixed-valence, Rhenium complexes, Intramolecular electron transfer, Energy conversion, 369
- Ruthenium complexes
Mixed-valence, Intramolecular electron transfer, Inverted region, Reorganization energies, Energy conversion, 465
- Ruthenium complexes
Spiropyrans, Spirooxazine, Bipyridine, Molecular device, 655
- Ruthenium(II)
Diimine ligands, Tetradentate, Syntheses, Structures, 867
- Ruthenium(II) carbonyl complexes
Phosphine–phosphinesulfide, Bidentate chelating ligand, X-ray crystal structures, Octahedral structures, Steric effect, 2725
- Ruthenium(II) complexes
NS-donors, Thiosemicarbazones, X-ray crystal structures, Biological activity, 447
- Ruthenium(II) complexes
Phenylazoisoquinolin, Isomers, X-ray structures, 535
- Ruthenium(II) complexes
Arylazimidazoles, 1,10-Phenanthroline, Electrochemistry, X-ray structures, EHMO, 849
- Ruthenium(II) complexes
Polypicolylamine ligands, Tricyanomethane anions, X-ray crystallography, 875
- Ruthenium(II)-bipy derivative complexes
Photoisomerization, 1,4-bis(diphenylphosphino)butane, 3205
- Ruthenium-polypyridine
Benzotriazole, Electron transfer, Intervalance charge-transfer, Mixed-valence, 1303
- S*=1/2 antiferromagnet
 ^{13}C NMR, Quantum spin chain, Cu complex, Molecular magnet, Field-induced excitation gap, 2273
- Salen Cu(II) complexes
Schiff-base ligands, Catalytic epoxidation, Iodosylbenzene, Styrene, Hammett substituent constants, 1653
- Salen ligands
Axial coordination cobalt(III) complexes, Circular dichroism spectra (CD), X-ray structures, 1535
- Salicylaldehyde semicarbazone
Copper(II) complexes, Crystal structures, 2781
- Salicylidene
Copper, Tetradeinate, Quadridentate, Schiff-base, Polymethylenediamine, 887
- Salicylideneaniline
Cobalt(II) complexes, Schiff base, Solutions, Ligand-field parameters, Electronic spectra, Chromaticity, Solvatochromism, 997
- Samarium
Synthesis, Crystal structures, Lanthanide, Ytterbium, β -Diketiminato ligand, 441
- Sandwich
Bimetallic coordination polymers, Dicyanamide, Crystal structures, Magnetic properties, Template, 433
- Schiff base
p-Cymene, Hexamethylbenzene, *N*-(2-pyridinylmethylene)phenylamines, *N*-(2-pyridinylmethylene)cyclohexylamine, Ruthenium, 605
- Schiff base
Pyridazine, Quasi-reversible, *o*-aminophenol, 665
- Schiff base
Cobalt(II) complexes, Salicylideneaniline, Solutions, Ligand-field parameters, Electronic spectra, Chromaticity, Solvatochromism, 997
- Schiff base
Electrochemical synthesis, 2-Aminopyridine, Methanol, 1335
- Schiff base
Macrocycle, Template, Nickel(II) complexes, Mixed-donor macrocycles, Azacrown ethers, 1481

- Schiff bases
Complexes, Vanadium, 1009
- Schiff bases
Zinc(II) and cadmium(II) complexes, Di-2-pyridylketone Schiff base of *S*-benzyl-dithiocarbazate, Dithiocarbazates, 1471
- Schiff bases
Heteropolymetallic complexes, Uranyl ions, Crystal structures, 2683
- Schiff bases
Coordination chemistry, Cd compounds, X-ray structure determination, Hydrogen bonding, Reversible absorption and desorption of water, 3451
- Schiff-base
Copper, Tetradeinate, Quadradeinate, Polymethylenediamine, Salicylidene, 887
- Schiff-base
Manganese, Epoxidation, Biaryl, Chiral-at-metal, 1617
- Schiff-base
Copper complexes, Template synthesis, Direct synthesis, Oxaaza macrocycles, 1701
- Schiff-base
Cadmium, Tetradeinate, Quadradeinate, Polymeric, 3213
- Schiff-base ligands
Salen Cu(II) complexes, Catalytic epoxidation, Iodosylbenzene, Styrene, Hammett substituent constants, 1653
- Schiff-bases
Tetranuclear copper(II) complexes, Molecular rectangles, Crystal structures, 1385
- Se-donors
Ni dithiolenes, Raman, X-ray, Electrochemistry, 2175
- Second-order
Radical, NLO, HRS, Electrochemistry, 1851
- Selenium
Rhenium, Clusters, Copper, Sulfur, Tellurium, 3383
- Self-assemblies
Supramolecular chemistry, Solid state structures, Pyrroles, Hydrogen bonds, Molecular recognition, 2963
- Self-assemblies
Supramolecular chemistry, Copper, Coordination chemistry, Oligomers, 2985
- Self-assembly
Anion binding, Pyrrole, Ferrocene, Electrochemical sensor, 699
- Self-assembly
Bridging, Ligand, Tetrahedral cage, Anion binding, 781
- Self-assembly
Copper(II) complexes, Structural elucidation, Magnetic properties, 2661
- Self-assembly
Coordination polymer, Hydro(solvo)thermal synthesis, Cobalt oxydiacetate, Topological isomerism, Interconversion, 2953
- Self-complementary molecules
Carbacylamidophosphates, Phosphorylic ligands, Supramolecular chemistry, 1221
- Semiempirical (AM1) calculations
Terpyridine, Organic based magnets, EPR radicals, Open-shell molecules, Nitronyl nitroxide, 2099
- Sensors
Clusters, Ruthenium, ArgoGel resins, Supported transition metals, Gas sensing, 3
- Separation coefficient
Isotopic fractionation, Ion-exchange chromatography, Complex formation, Dimerization, Molecular vibration, 1377
- SERS
Terpyridine, Perchlorate, 1673
- Shift base
Magnetic measurement, Cubane structure, Copper, Nickel, Manganese, 2359
- Silver
Copper, Ruthenium, 2,2'-Bipyridine, Metallostar, X-ray, 93
- Silver
Cyanide, Pentafluoropropionate, Triflate, Trifluoroacetate, 217
- Silver carboxylates complexes
Crystal structures, Thermal analysis, 837
- Silver(I)
(Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropenonitrile, Metal complexes, X-ray structures, Anti-fungal, *Candida albicans*, 1595
- Silver(I)
Ylide complexes, Crystal structures, Mercury(II), 3345
- Silver(I) complex
Triazene, Triazene, Copper(I) complex, Dinuclear structure, 563
- Silyamide
Pyridine, X-ray crystallography, Metal amide, 67
- Single crystal X-ray analysis
Single-molecule magnet, Mn₁₂ complexes, a.c. and d.c. magnetic susceptibility, 2-Thiophenecarboxylic acid, PPh₄ salt, 1795
- Single crystal X-ray diffractions
Metal clusters, Supramolecular chemistries, Coordination polymers, 2999
- Single molecule magnet
Susceptibility, Chirality, Manganese, Magnetic clusters, 2355
- Single molecule magnets
Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1889
- Single molecule magnets
Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1897
- Single molecule magnets
Mn₁₂, Thermal stability, Thermolytic synthetic methods, 1951
- Single-component organic ferrimagnet
Magnetic susceptibility, Electron spin resonance, Nitronyl nitroxide, Perturbation treatment, Triradical, 1809
- Single-molecule magnet
Mn cluster, Benzenesulfonic acid, 1759
- Single-molecule magnet
Manganese cages, Magnetization tunneling, 1,1,1-Tris(hydroxymethyl)ethane, 1771
- Single-molecule magnet
Single crystal X-ray analysis, Mn₁₂ complexes, a.c. and d.c. magnetic susceptibility, 2-Thiophenecarboxylic acid, PPh₄ salt, 1795
- Single-molecule magnet
Quantum tunneling of magnetization, Nanomagnet, Superparamagnet, Polynuclear iron complex, 1865
- Single-molecule magnets
Nanomagnet, Magnetization tunneling, Superparamagnet, Nickel, 1727
- Single-molecule magnets
Crystal structures, Magnetic properties, 1765
- Single-molecule magnets
Magnetization, Two-electron reduction, Crystallization, 1777
- Single-molecule magnets
Hysteresis, Jahn-Teller isomers, Quantum tunneling of magnetization, 1783
- Single-molecule magnets
Nanomagnet, Magnetization tunneling, Superparamagnet, Manganese, 1857
- Single-molecule magnets
Nanomagnets, Magnetic anisotropy, Density-functional calculations, Spin-orbit coupling, 1871
- Single-molecule magnets
Nanomagnet, Electron paramagnetic resonance, Quantum tunneling, Manganese, 1911
- Single-molecule magnets
Mn₄, Spin-lattice relaxation, Quantum tunneling of the magnetic moment, Magnetic order, Very-low-temperature time-dependent specific heat, 2169
- Single-molecule magnets
Hysteresis, Mn clusters, Quantum tunneling, 2267
- Single-molecule magnets
Host-guest systems, MCM-41, Mesoporous materials, Magnetic properties, Mn clusters, 2395
- Single-source precursor method
Cadmium sulfide, Nanocrystallites, 3129
- Singlet-triplet
Centrosymmetric dimer, Antiferromagnetic interaction, Curie-Weiss law, 2311
- Singlet-triplet separation
DFT calculation, Copper, Verdazyl, 2241
- SOD-like activity
Cu,Zn-SOD model, Crystal structures, ESR magnetic susceptibility, 925
- Sodium
Lithium, Potassium, Amide ligands, 12-Crown-4, Crystal structures, 3507
- Sodium dodecyl sulfate
Palladium(II), Glutathione, L-Cysteine, Complex formation, Micellar catalysis, 279

- Solid state**
Crystal structures, Polymeric, Mn compounds, 133
- Solid state**
Ru(II) complex, Ligand exchange reaction, Phase transfer catalyst, 3289
- Solid state structures**
Supramolecular chemistry, Self-assemblies, Pyrroles, Hydrogen bonds, Molecular recognition, 2963
- Solid state structures**
Synthesis, Spectroscopic data, Polymetallic complexes, 3403
- Solid-state**
X-ray structures, 2D coordination networks, Vanadium oxo clusters, 3037
- Solid-state ^{13}C NMR**
Prussian-blue analogs, Local magnetic structures, Hyperfine coupling of CN ions, Solid-state high-resolution deuterium NMR, Crystal water molecules, 1981
- Solid-state high-resolution deuterium NMR**
Prussian-blue analogs, Local magnetic structures, Solid-state ^{13}C NMR, Hyperfine coupling of CN ions, Crystal water molecules, 1981
- Solid-state high-resolution deuterium NMR**
Layer-structured basic copper compound, Local magnetic structures, Local magnetic interactions, Hyperfine coupling of OD^- ions, 1995
- Solution ESR spectra**
Molecule-based magnetism, Nitronyl nitroxide, Thieno[3,4-*d*]imidazole, Magnetic interaction, 1823
- Solutions**
Cobalt(II) complexes, Schiff base, Salicylideneaniline, Ligand-field parameters, Electronic spectra, Chromaticity, Solvatochromism, 997
- Solvatochromism**
Cobalt(II) complexes, Schiff base, Salicylideneaniline, Solutions, Ligand-field parameters, Electronic spectra, Chromaticity, 997
- Solvent extraction**
Lanthanide picrates complexes, X-ray structures, 1695
- Solvolytic DMSO**
Pd(II) and Pt(II) complexes, Pt(I) complexes, 2,2'-Biimidazole, *N,N'*-Dimethyl-2,2'-biimidazole, Crystal structure, DNA interactions, 1113
- Solvochemical synthesis**
Chromium thioantimonates, Crystal structure, 2839
- Speciation**
Borate-polysaccharide complexes, Polymer length, Conformation, ^{11}B NMR, 909
- Speciations**
VO(IV) complexes, Picolinic acid derivatives, Insulin-mimics, X-ray crystallography, 27
- Spectra**
Copper(I) complexes, Dimethylpicolinate complexes, Hexa-coordinate copper(I), Synthesis, Crystal structures, 515
- Spectra**
Cadmium(II) azido and thiocyanato complexes, Pyridine derivative complexes, Preparation, Crystal structures, 975
- Spectra**
Cadmium(II) pseudohalides, Pyridine derivative complexes, Syntheses, Crystal structures, 3137
- Spectral data**
Mercury(II) complexes, Thiosemicarbazone complexes, Crystal structures, 1147
- Spectral properties**
Iron(III), Cobalt(II), Nickel(II), Copper(II), Palladium(II), Platinum(II), Crystal structures, 2-Pyridineformamide, *N*(4)-dimethylthiosemicarbazone complexes, 83
- Spectral properties**
Rhodium, Rhodoximes, Oximates, Crystal structures, 3195
- Spectrochemistry**
Optically active sulfur-bridged complexes, Dinuclear Co(III)-Pd(II) and Co(III)-Pt(II) complexes, 2,2'-Bipyridine complexes, Crystal structures, 1507
- Spectrophotometry**
Nitrosation, Amino acid, Dinitrogen trioxide, 1059
- Spectroscopic characterisation**
Hydrogen bonded coordination complexes, Lanthanide(III) complexes, *N,N'*-dimethylurea metal complexes, X-ray crystal structures, 825
- Spectroscopic data**
Solid state structures, Synthesis, Polymetallic complexes, 3403
- Spectroscopic investigation**
Rhenium complexes, Benzotriazole complexes, Oxo-complexes, Crystal structures, 2869
- Spectroscopy**
Cobalt(III) complexes, Nickel(II) complexes, Synthesis, Thiosemicarbazone, X-ray crystallography, 383
- Spectroscopy**
Carborane, Isomerisation, Synthesis, Crystallographic study, Vertex labelling, 1293
- Spectroscopy**
Lanthanides, Divalent europium, Nitrilotriacetate, Structures, 2761
- Spectroscopy**
Heteropolyoxometalates, Redox process, 2901
- Spin canting**
Ni(III) thiolate complexes, Crystal structures, Magnetism, 299
- Spin densities**
Molecular magnet, Magnetic interactions, 2301
- Spin density**
[Fe(ptz)₆](BF₄)₄, Polarised neutron diffraction, Light-induced excited spin state trapping, 2155
- Spin density**
Covalent spin delocalisation, Superexchange magnetic interaction, 2297
- Spin density distribution**
Oxophenalenoxyl, Monoradicals, Spin topology, Molecular spin diversity, Density functional calculation, 2205
- Spin diverse**
Biradicals, Exchange coupling, Heterospin, 2423
- Spin glass**
Organic-based magnet, Tetracyanoethylene, Low-dimensional magnetism, Susceptibility, Fractal cluster, 1751
- Spin ladder**
Antiferromagnetic, Copper(II), Quinoxaline, 2325
- Spin structure**
Neutral radical, Diazaphenalenyl, ^{15}N atom, Gyromagnetic ratio, Columnar structure, 2199
- Spin structure**
Oxophenalenoxyl, Radical dianion, Redox-based spin diversity, Charge fluctuation, Density functional calculation, 2209
- Spin structure**
1,6-Dithiapyrene, Imino nitroxide, Oxo-verdazyl, Density functional theory, ESR/ENDOR/TRIPLE spectroscopy, 2219
- Spin topology**
Oxophenalenoxyl, Monoradicals, Spin density distribution, Molecular spin diversity, Density functional calculation, 2205
- Spin-crossover**
Bistability, Magnetic field effect, Ising-like model, Monte Carlo, 2441
- Spin-doublet ground state**
Oxamido-bridged, Heterobinuclear complexes, Homotrinuclear nickel(II) complexes, Supramolecular structures, 2911
- Spin-glass**
Carbenes, Copper, Assembly, Magnetic properties, Photolysis, 1877
- Spin-lattice relaxation**
Single-molecule magnets, Mn_4 , Quantum tunneling of the magnetic moment, Magnetic order, Very-low-temperature time-dependent specific heat, 2169
- Spin-orbit coupling**
Nanomagnets, Single-molecule magnets, Magnetic anisotropy, Density-functional calculations, 1871
- Spin-Peierls transition**
Verdazyl radical, Heat capacity, Magnetism, Doping effect, Antiferromagnetic order, High-field magnetization, 2091
- Spin-polarized nano-wire**
Double-exchange mechanism, High-spin organic polymer, Quantum chemical calculations, 1829
- Spin-state of iron(III) ion**
Hydroperoxy-iron(III) species, Oxygen atom transfer reaction, Heme-oxygenase, 293
- Spin-transition**
Monte Carlo entropic sampling technique, Thermal hysteresis loop, Ising-like Hamiltonian, 2453

- Spirooxazine
Spiropyrans, Bipyridine, Ruthenium complexes, Molecular device, 655
- Spiropyrans
Spirooxazine, Bipyridine, Ruthenium complexes, Molecular device, 655
- Square grid
Arylazoimidazoles, Cadmium (II) complexes, X-ray structure, 3161
- Square grid network
Magnetic properties, Pentacyanoferrate complexes, Magnetometry, 2125
- Square-pyramidal environment
Antiferromagnetic coupling, Magnetic susceptibility, 2515
- Stability constants
Guanidinoacetic acid, Guanidino-carboxylate interactions, Ternary complexes, Potentiometry, Copper(II), 225
- Stability constants
Acidity constants, Charge repulsion, Phosphonate complexes, Pyrimidine nucleotide analogue, Stacking interactions, Ternary complexes, 1067
- Stability constants
Dimalona[C₆₀]fullerene protonation, Uranyl, Complexes, 1085
- Stability constants
 β -Alanine, Dipeptides, Tripeptides, Nickel(II), Palladium(II), 2607
- Stable non-planar conformations
MP2 method, Geometry optimization, Cyclic phosphazenes, Electronic structures, 3243
- π -Stacking
Stibine, Arsine, Synthesis, X-ray structures, Group 15, 211
- π,π -Stacking
Copper(II), Mixed-ligand complexes, Crystal structures, Nitro, Benzyl, 1039
- Stacking
Dibenzotetraaza[14]annulenes, Alkoxy-carbonylation, Macrocyclic Schiff bases, CH···O hydrogen bonds, 3299
- Stacking interactions
Acidity constants, Charge repulsion, Phosphonate complexes, Pyrimidine nucleotide analogue, Stability constants, Ternary complexes, 1067
- 'Stapled' sandwich-type diphthalocyanine
Niobium diphthalocyanine, Niobium(V) complexes, Crystal structures, UV-Vis spectroscopy, Raman spectroscopy, 313
- Stearic acid
Titania, Photocatalyst, Electronic spectra, 35
- Stearic acid
Lead soaps, Hydrothermal, Palmitic acid, Red lead, Lead-tin yellow, 3171
- Steric effect
Ruthenium(II) carbonyl complexes, Phosphine-phosphinesulfide, Bidentate chelating ligand, X-ray crystal structures, Octahedral structures, 2725
- Steric effects
Platinum, Imine ligands, Chiral compounds, Oxidative addition, Crystal structure, 3363
- Stibine
Arsine, Synthesis, X-ray structures, π -Stacking, Group 15, 211
- s-Triazine
Phthalocyanine, Unsymmetrical, Substituted, Trimeric, Metal complex, 819
- Structural and magnetic properties
Chain polymers, X-ray diffraction, Bridging ligands, 3025
- Structural elucidation
Copper(II) complexes, Self-assembly, Magnetic properties, 2661
- Structural property
Trinuclear complexes, Tritopic hydrazide ligands, Magnetic property, 1271
- Structure
ZnSe, NMR, TGA, 489
- Structure
Substitution, Iron, Thiocarboxylate, Bisphosphine ligands, 3445
- Structures
Divalent europium, Lanthanides, Crown ethers, Luminescence, 337
- Structures
Poly(3-rpyrazolyl)borate cobalt(II) complexes, NMR, 581
- Structures
Ruthenium(II), Diimine ligands, Tetradentate, Syntheses, 867
- Structures
Hydrazine, Hydrogen, Bonding, 1397
- Structures
Cobalt, Nickel, Copper, Tetra(3-*iso*-propylpyrazolyl)borate, Magnetism, 1645
- Structures
Lanthanides, Divalent europium, Nitrilo-triacetate, Spectroscopy, 2761
- Styrene
Salen Cu(II) complexes, Schiff-base ligands, Catalytic epoxidation, Iodosylbenzene, Hammett substituent constants, 1653
- Suberato complexes
Manganese, Coordination polymers, X-ray structures, 2699
- Substituted
Phthalocyanine, Unsymmetrical, Trimeric, Metal complex, s-Triazine, 819
- Substitution
Iron, Thiocarboxylate, Bisphosphine ligands, Structure, 3445
- Succinamic acid
Europium complex, X-ray crystallography, Photophysical property, 1,10-Phenanthroline, 323
- Succinate
Hydrothermal reaction, Crystal structure, Bipy, Open-framework, 3097
- Sugar
Ironglucose, 2,2':6',2'-terpyridine, X-ray, 687
- Sulfonamide
Dithiocarbamate complexes, Nickel complexes, Crystal structure, 1561
- Sulfonamide ligands
Zinc complexes, Electrochemical synthesis, Crystal structures, 1099
- Sulfur
Tellurium, Clusters, Laser ablation synthesis, Mass spectrometry, Post-source decay, 2601
- Sulfur
Rhenium, Clusters, Copper, Selenium, Tellurium, 3383
- Sulfur dioxide
Palladium complexes, Insertion, Crystal structures, 805
- Sulfur-ligands
Thiocarbonate complexes, Iron, X-ray structure, Carbonyl, 3105
- Superconducting transition
BETS, Muon, 2307
- Superconductivity
Electron-doping, HDFT, Infinite layer, Natural orbital, Density, 2191
- Superexchange magnetic interaction
Spin density, Covalent spin delocalisation, 2297
- Superparamagnet
Single-molecule magnets, Nanomagnet, Magnetization tunneling, Nickel, 1727
- Superparamagnet
Single-molecule magnets, Nanomagnet, Magnetization tunneling, Manganese, 1857
- Superparamagnet
Single-molecule magnet, Quantum tunneling of magnetization, Nanomagnet, Poly-nuclear iron complex, 1865
- Supported transition metals
Clusters, Ruthenium, Sensors, ArgoGel resins, Gas sensing, 3
- Supramolecular
X-ray structure, Nickel(II), Guanidino-benzimidazole derivatives, 735
- Supramolecular
Anion, Dendrimer, Electrochemistry, Ferrocene, Receptor, 763
- Supramolecular
Molecular magnetism, Carboxylate, Radical, Co(II) complexes, Hydrogen-bond, 1929
- Supramolecular architecture
Lanthanide, Glycine, 1,10-Phenanthroline, Coordination compound, Non-cova-lent interactions, 2617
- Supramolecular chemistries
Metal clusters, Coordination polymers, Single crystal X-ray diffractions, 2999
- Supramolecular chemistry
Carbacylamidophosphates, Phosphorylic ligands, Self-complementary molecules, 1221
- Supramolecular chemistry
Self-assemblies, Solid state structures, Pyrroles, Hydrogen bonds, Molecular recognition, 2963

- Supramolecular chemistry**
 Copper, Self-assemblies, Coordination chemistry, Oligomers, 2985
- Supramolecular crystal engineering**
 Organic ferrimagnet, Nitronyl nitroxide, Magnetic susceptibility, Charged biradical, Electron spin resonance, 1817
- Supramolecular interactions**
 Hydrogen bonding, CH···O bonding, CH···N bonding, CH···Cl bonding, Poly(pyrazolyl)borate ligands modified, 1123
- Supramolecular isomers**
 1,2-Bis(4-pyridinecarboxamido)ethane, Copper(II) complexes, X-ray structures, Hydrogen bonding, Coordination polymers, 3493.
- Supramolecular structures**
 Neodymium complexes, Hydrothermal synthesis, X-ray crystallography, IR, TGA, 981
- Supramolecular structures**
 Oxamido-bridged, Heterobinuclear complexes, Spin-doublet ground state, Homotrinuclear nickel(II) complexes, 2911
- Supramolecule**
 Biferrocenium, Metallocene, Pyridinyl, 1199
- Supramolecule**
 Ferromagnetic interaction, Channel, Nitroxide, Ligand, Free radical, 2133
- Susceptibility**
 Organic-based magnet, Spin glass, Tetra-cyanoethylene, Low-dimensional magnetism, Fractal cluster, 1751
- Susceptibility**
 Li_xMoSo_2 , Magnetic properties, Nanotubes, 2293
- Susceptibility**
 Single molecule magnet, Chirality, Manganese, Magnetic clusters, 2355
- Susceptibility**
 Tetranuclear cluster, Inelastic neutron scattering, Magnetic anisotropy, Magnetic frustration, 2471
- Sym-fac-[Co(bpma)(bipy)Cl]²⁺ isomer**
 Isomer preference, Cobalt(III) complexes, Crystal structures, Energy minimisation, 263
- Syntheses**
 Crystal structures, Zinc complexes, Poly-nitrile ligands, Fluorescence, 493
- Syntheses**
 Ruthenium(II), Diimine ligands, Tetradentate, Structures, 867
- Syntheses**
 Nickel(II), Dithiophosphates, X-ray structures, 1341
- Syntheses**
 Cadmium(II) pseudohalides, Pyridine derivative complexes, Spectra, Crystal structures, 3137
- Synthesis**
 Stibine, Arsine, X-ray structures, π -Stacking, Group 15, 211
- Synthesis**
 Iron(III) complexes, Pyrazolylthiosemicarbazone, X-ray crystal structures, 375
- Synthesis**
 Cobalt(III) complexes, Nickel(II) complexes, Spectroscopy, Thiosemicarbazone, X-ray crystallography, 383
- Synthesis**
 Crystal structures, Lanthanide, Samarium, Ytterbium, β -Diketiminato ligand, 441
- Synthesis**
 Copper(I) complexes, Dimethyldipicolinate complexes, Hexa-coordinate copper(I), Spectra, Crystal structures, 515
- Synthesis**
 N -Alkylthiourea, Cadmium(II) complexes, X-ray structures, 595
- Synthesis**
 Equilibria, Dinuclear complexes, Polyamines, Phenol, Crystal structure, 1135
- Synthesis**
 Ferrocene, Cyclotriphosphazene, Electrochemistry, 1237
- Synthesis**
 Organolanthanide complex, Ytterbium, β -Diketiminato ligand, Crystal structures, 1241
- Synthesis**
 Dirhenium, Pseudo-halides, Crystal structures, Di-cation, Amidato, 1281
- Synthesis**
 Carborane, Isomerisation, Spectroscopy, Crystallographic study, Vertex labelling, 1293
- Synthesis**
 Crystal structures, Europium organic complexes, Luminescence, Lifetime, 2719
- Synthesis**
 Coordination polymers, Crystal structures, 4,7-Phenanthroline, Cu(I), 3015
- Synthesis**
 Crystal structures, Magnetic properties, Oxalato complexes, 3115
- Synthesis**
 Solid state structures, Spectroscopic data, Polymetallic complexes, 3403
- Tantalum**
 Bicyclic guanidinate, Intermolecular hydrogen bonds, Coordination isomer, Dodecahedral geometry, 2731
- Target**
 Kinetics, Adduct, Transmetalation, Heteropolymetallic, Formation, 2917
- Tellurium**
 Sulfur, Clusters, Laser ablation synthesis, Mass spectrometry, Post-source decay, 2601
- Tellurium**
 Rhenium, Clusters, Copper, Sulfur, Selenium, 3383
- Template**
 Bimetallic coordination polymers, Dicyanamide, Crystal structures, Magnetic properties, Sandwich, 433
- Template**
 Macrocycle, Schiff base, Nickel(II) complexes, Mixed-donor macrocycles, Azacrown ethers, 1481
- Template synthesis**
 Copper complexes, Direct synthesis, Schiff-base, Oxaaza macrocycles, 1701
- Template synthesis**
 Nickel complexes, Macrocyclic complexes, Hexaazacyclohexadecane, 2633
- Template synthesis**
 Lead(II) complexes, Lariat ether, Macrocycle, Crystal structures, 2709
- Template synthesis**
 Yttrium, Lanthanides, Macrocyclic Schiff base complexes, X-ray structure, 2773
- Templating agents**
 Metalla-macrocycles, Palladium and nickel complexes, Triphenylphosphine, Anion template, Hydrogen bonding, 2991
- TEMPO**
 Coordination polymers, Nitroxides, Copper(II) complexes, Manganese(II) complexes, 2363
- Tenoxicam**
 Meloxicam, X-ray diffraction, Dimethylsulfoxide, 1355
- Terephthalate**
 Coordination polymers, Cadmium(II), Hexamethylenetetramine, Thiocyanate, 2933
- Terminal azido ion complex**
 Binuclear nickel(II) complex, Crystal structure, Magnetic properties, End-on azido ligand complex, Hexadentate ligand, 257
- Ternary complexes**
 Guanidinoacetic acid, Guanidino-carboxylate interactions, Stability constants, Potentiometry, Copper(II), 225
- Ternary complexes**
 Luminescence, Lanthanide, Macrocycles, 745
- Ternary complexes**
 Acidity constants, Charge repulsion, Phosphonate complexes, Pyrimidine nucleotide analogue, Stability constants, Stacking interactions, 1067
- Ternary copper(II) complexes**
 Copper(II)-Schiff base complexes, N-Salicylidene derivative, X-ray structures, Toxicity of copper(II) complexes, *Drosophila melanogaster*, 403
- Trans-platinum complexes**
 Cytotoxic activity, NMR, (hydroxy-methyl)-Pyridine, 3379
- Ternary manganese(II) complexes**
 1,10-Phenanthroline, Neocuproine, Indole-2-carboxylic acid, Crystal structures, IR, Catalytic activity, 1461
- 2,2':6',2'-terpyridine**
 Irlonglucose, sugar, X-ray, 687
- 2,2':6',2'-Terpyridine**
 Praseodymium, Neodymium, 1,10-Phenanthroline, X-ray crystal structures, 1489

- Terpyridine**
SERS, Perchlorate, 1673
- Terpyridine**
Organic based magnets, EPR radicals, Open-shell molecules, Nitronyl nitroxide, Semiempirical (AM1) calculations, 2099
- Terpyridine**
p-Cymene, Hexamethylbenzene, Ruthenium, 2,2'-Biquinoline, 2,9-Dimethyl, 4,7-Diphenyl-1, 10-Phenanthroline, 2,3-Bis(α -pyridyl)quinoxaline, 3155
- Tetra(3-*iso*-propylpyrazolyl)borate**
Cobalt, Nickel, Copper, Structures, Magnetism, 1645
- Tetrabromocuprates**
Two-dimensional Heisenberg antiferromagnet, Magnetic susceptibility, Ab initio, 2235
- Tetracyanoethylene**
Organic-based magnet, Spin glass, Low-dimensional magnetism, Susceptibility, Fractal cluster, 1751
- Tetradentate**
Ruthenium(II), Diimine ligands, Syntheses, Structures, 867
- Tetradentate**
Copper, Quadridentate, Schiff-base, Poly-methylenediamine, Salicylidene, 887
- Tetradentate**
Cadmium, Quadridentate, Schiff-base, Polymeric, 3213
- Tetrahedral cage**
Self-assembly, Bridging, Ligand, Anion binding, 781
- Tetrahedral manganese clusters**
Generalized spin orbital, Density functional theory, Noncollinear molecular magnetism, Hybrid methods, Three-dimensional spin structure, 2013
- Tetramethyldiaminomethane**
Tricarbonylrhodium (I) complexes, Dimethylamine, X-ray crystallography, 1321
- Tetranaphthylporphyrins**
Tetratolylporphyrins, Octabromoporphyrins, Zn(II) porphyrins, Electronic properties, Fluorescence properties, Electrochemical studies, 3145
- Tetranuclear**
Dicyanonitrosomethane derived oximate ligands, Mixed valent manganese clusters, Trinuclear, Magnetism, Crystal structures, 165
- Tetranuclear cluster**
Inelastic neutron scattering, Magnetic anisotropy, Susceptibility, Magnetic frustration, 2471
- Tetranuclear complexes**
Copper(II) complexes, Magnetic properties and ferromagnetic interactions, 625
- Tetranuclear copper(II) complexes**
Schiff-bases, Molecular rectangles, Crystal structures, 1385
- Tetranuclear nickel(II) complexes**
Crystal structure, Dinickel(II) complexes, Compartmental ligands, 75
- Tetraphenyldiphosphinoethane**
Nickel(II) xanthates, Trinuclear nickel-sulfur cluster, Nickel(II) dithiocarbonate complexes, X-ray structures, 2895
- Tetrathiafulvalene**
Radical salts, Bimetallic oxalato complexes, Molecular magnetism, Conducting properties, 2381
- Tetrathiafulvalenes**
Metal bis-dithiolene complexes, Magnetism, Electrical conductivity, X-ray crystal structures, 2415
- Tetratolylporphyrins**
Tetranaphthylporphyrins, Octabromoporphyrins, Zn(II) porphyrins, Electronic properties, Fluorescence properties, Electrochemical studies, 3145
- Tetrazole**
Nitronyl nitroxide, Manganese complexes, Nickel complexes, 1965
- TG-FTIR analysis**
Manganese complexes, 1,1-Cyclobutane-dicarboxylate complexes, Crystal structures, IR spectra, Thermal analysis, 2595
- TGA**
ZnSe, NMR, Structure, 489
- TGA**
Neodymium complexes, Hydrothermal synthesis, X-ray crystallography, IR, Supramolecular structures, 981
- Thallium**
Cadmium, Thiolates, Bis(mercaptoimidazolyl)borate complexes, Crystal structures, 3461
- Thallium** *meso*-tetra-(p-chlorophenyl)porphyrin
Crystal structures, Indium *meso*-tetra-(p-chlorophenyl)porphyrin, Indium *meso*-tetra-(p-bromophenyl)porphyrin, 1633
- Theoretical analysis**
Molecule-based magnets, Bulk ferromagnetism, *p*-(nitro)Phenyl nitronyl nitroxide, Magnetic structures, 1935
- Thermal analysis**
Silver carboxylates complexes, Crystal structures, 837
- Thermal analysis**
Manganese(II), Nickel(II), Zinc(II), Crystal structures, 2-Methyllactato complexes, 1051
- Thermal analysis**
Manganese complexes, 1,1-Cyclobutane-dicarboxylate complexes, Crystal structures, IR spectra, TG-FTIR analysis, 2595
- Thermal hysteresis loop**
Monte Carlo entropic sampling technique, Spin-transition, Ising-like Hamiltonian, 2453
- Thermal spin transition**
2,6-bis(pyrazol-3-yl)pyridine, Transition temperature, Hydration, 2375
- Thermal stability**
 Mn_{12} , Single molecule magnets, Thermolytic synthetic methods, 1951
- Thermal studies**
Copper(II) complexes, Dialkyldithiocarbamate ligands, Chemical vapor deposition, Volatility, Crystal structures, 1575
- Thermogravimetric analysis**
Copper complexes, Crystal structures, Pyridazine ligands, Pyrimidine ligands, Triazine ligands, 419
- Thermolytic synthetic methods**
 Mn_{12} , Single molecule magnets, Thermal stability, 1951
- Thiaether**
Encapsulating ligand, Iron(II), Low-spin, π -Acceptor, 45
- Thieno[3,4-*d*]imidazole**
Molecule-based magnetism, Nitronyl nitroxide, Solution ESR spectra, Magnetic interaction, 1823
- 2-Thienyl derivatives**
Arsenic, Antimony, X-ray structures, $[PdCl_2\{(C_4H_3S)_3As\}_2]$, 549
- Thin film**
Germanium phosphide, APCVD, 1683
- Thin films**
Porphyrins, Zirconium phosphonates, Diffraction gratings, 3065
- Thiocarbodihydrazone and diacetylidyhydrazones ligands**
Oxomolybdenum(IV) complexes, X-ray crystal structure, Oxotransfer property, 3075
- Thiocarbonate complexes**
Iron, X-ray structure, Carbonyl, Sulfur-ligands, 3105
- Thiocarboxylate**
Substitution, Iron, Bisphosphine ligands, Structure, 3445
- Thiocyanate**
Praseodymium complexes, Lanthanide, 2,2'-Bipyridine, Chloride, Nitrate, Dithiocarbamate, Crystal structures, 347
- Thiocyanate**
Coordination polymers, Cadmium(II), Hexamethylenetetramine, Terephthalate, 2933
- Thiodiglycolic acid complexes**
Copper(II), Crystal structures, EPR, Magnetic properties, 411
- Thiolate**
Tungsten alkylidyne, Molybdenum alkylidyne, Electronic structure, Frontier molecular orbitals, Alkoxide, 145
- Thiolate**
Aluminium, Hydride, 2655
- Thiolate ligands**
Dirhenium complexes, Metal–metal multiple bonds, Crystal structures, Face-sharing bioctahedral complexes, Phosphine ligands, 2625
- Thiolates**
Thallium, Cadmium, Bis(mercaptoimidazolyl)borate complexes, Crystal structures, 3461
- 2-Thiophenecarboxylic acid**
Single-molecule magnet, Single crystal X-ray analysis, Mn_{12} complexes, a.c. and d.c. magnetic susceptibility, PPh_4 salt, 1795

- Thioquinoline units**
Mononuclear complexes, Coordination polymer, 507
- Thioselenocarbamate**
Iron, Dithiocarbamate, Diselenocarbamate, Nitrosyl, ^{13}C NMR, ^{15}N NMR, 3423
- Thiosemicarbazone**
Cobalt(III) complexes, Nickel(II) complexes, Synthesis, Spectroscopy, X-ray crystallography, 383
- Thiosemicarbazone**
Hydroxyacetophenone, Copper, Nickel, Crystal structures, Metal(II) complexes, 2831
- Thiosemicarbazone**
Copper(II), Electronic spectra, IR spectra, EPR, X-ray crystal structure, 3321
- Thiosemicarbazone complexes**
Mercury(II) complexes, Crystal structures, Spectral data, 1147
- Thiosemicarbazones**
Ruthenium(II) complexes, NS-donors, X-ray crystal structures, Biological activity, 447
- Thiourea**
Gold(I) complexes, X-ray structures, 1349
- Three-dimensional spin structure**
Generalized spin orbital, Density functional theory, Tetrahedral manganese clusters, Noncollinear molecular magnetism, Hybrid methods, 2013
- Tin(IV)**
Diphosphino ligands, Chalcogens, Pyridine, X-ray crystallography, 1585
- Tin-119 NMR**
Organotin(IV), Bis(imidazoly)borate ligand, Electrospray mass spectroscopy, 499
- TiS₂**
Atmospheric pressure chemical vapour deposition, Energy-dispersive X-ray analysis, 1263
- Titania**
Photocatalyst, Electronic spectra, Stearic acid, 35
- Titanium**
Amide, Chloride, Gallium, Ligand exchange, 9
- Titanium**
Decafluorodiphenylamido, Zirconium, Vanadium, Iron, Cobalt, 153
- Titanium**
Fluoride, Praseodymium, Neodymium, X-ray structure, 575
- Titanium**
Cyclopentadienyl ligands, Intramolecular coordination, O ligands, P ligands, Variable-temperature NMR spectroscopy, 2885
- Titanium(III)**
Coordination chemistry, β -Diketiminato ligand, Chloride, Fluoride, 2669
- TMTSF**
Molecular magnetism, Organic superconductor, Effective exchange integral, Ab initio MO method, Density functional method, BEDT-TTF, BETS, TMTSF, 2051
- TMTTF**
Molecular magnetism, Organic superconductor, Effective exchange integral, Ab initio MO method, Density functional method, BEDT-TTF, BETS, TMTSF, 2051
- Topological isomerism**
Coordination polymer, Hydro(solvothermal synthesis, Cobalt oxydiacetate, Interconversion, Self-assembly, 2953
- Toxicity of copper(II) complexes**
Copper(II)-Schiff base complexes, *N*-Salicylidene derivative, X-ray structures, Ternary copper(II) complexes, *Drosophila melanogaster*, 403
- Transition metal**
Carboxylate, Coordination network, Double betaine, 811
- Transition metal complex**
Weak-ferromagnetism, Ferrimagnet, Molecular based magnet, Crown thioether, Benzene dithiolate, 1755
- Transition metal complexes**
Phosphorus sulfur ligand, Monodentate bidentate, Crystal structures, 361
- Transition metal ions**
Macrocyclic compounds, Complexation, Conductometry, Potentiometry, 569
- Transition metal ions**
Coordination polymers, Crystal structures, 4,4'-bipyridine, Network solids, 2821
- Transition temperature**
2,6-bis(pyrazol-3-yl)pyridine, Thermal spin transition, Hydration, 2375
- Transition-metal**
Crystal structures, 1,4-Butylenediphosphonates, 2739
- Transmetalation**
Kinetics, Adduct, Heteropolymetallic, Target, Formation, 2917
- Trans-platinum complexes**
Cytotoxic activity, NMR, (hydroxymethyl)-Pyridine, 3379
- Triazene**
Triazenede, Copper(I) complex, Silver(I) complex, Dinuclear structure, 563
- Triazenede**
Triazene, Copper(I) complex, Silver(I) complex, Dinuclear structure, 563
- Triazine ligands**
Copper complexes, Crystal structures, Pyridazine ligands, Pyrimidine ligands, Thermogravimetric analysis, 419
- Tricarbonylrhenium (I) complexes**
Tetramethyldiaminomethane, Dimethylamine, X-ray crystallography, 1321
- Tricarbonylrhenium(I) halide complexes**
Diastereoisomers, ^1H NMR, DFT calculations, Acetal ligands, 3371
- Tricompartmental ligands**
Macrocyclic copper(II) complexes, Magnetic properties, Electrochemical properties, Catalytic activity, 3483
- Tricyanomethane anions**
Ruthenium(II) complexes, Polypicolylaniline ligands, X-ray crystallography, 875
- Triflate**
Lanthanum, X-ray structures, Alkoxides, Grafting, 127
- Triflate**
Cyanide, Pentafluoropropionate, Trifluoroacetate, Silver, 217
- Triflate**
Uranium, Lanthanides, Triphenylphosphine oxide, Iodide, X-ray crystal structure, 3475
- Trifluoroacetate**
Cyanide, Pentafluoropropionate, Triflate, Silver, 217
- Trimeric**
Phthalocyanine, Unsymmetrical, Substituted, Metal complex, s-Triazine, 819
- Trimethylsilyl cyanide**
Acylferrocene, Cyanohydrin trimethylsilyl ether, 1523
- Trimethylthiazole**
Osmium, Metallation, Methyl substituent, X-ray structures, 355
- Trinuclear**
Dicyanonitrosomethane derived oximate ligands, Mixed valent manganese clusters, Tetranuclear, Magnetism, Crystal structures, 165
- Trinuclear complex**
Gadolinium, Copper, Magnetic property, Crystal structure, 1905
- Trinuclear complexes**
Tritopic hydrazide ligands, Structural property, Magnetic property, 1271
- Trinuclear copper complexes**
Crystal structures, Magnetic properties, 2927
- Trinuclear cyanocomplexes**
Molecular magnetism, Hexacyanometalates, Intermolecular interactions, 2427
- Trinuclear nickel-sulfur cluster**
Nickel(II) xanthates, Nickel(II) dithiocarbonate complexes, Tetraphenyldiphosphinoethane, X-ray structures, 2895
- Tripeptides**
 β -Alanine, Dipeptides, Nickel(II), Palladium(II), Stability constants, 2607
- Triphenylphosphine**
Metalla-macrocycles, Templating agents, Palladium and nickel complexes, Anion template, Hydrogen bonding, 2991
- Triphenylphosphine oxide**
Uranium, Lanthanides, Iodide, Triflate, X-ray crystal structure, 3475
- Triradical**
Single-component organic ferrimagnet, Magnetic susceptibility, Electron spin resonance, Nitronyl nitroxide, Perturbation treatment, 1809
- 1,1,1-Tris(hydroxymethyl)ethane**
Manganese cages, Single-molecule magnet, Magnetization tunnelling, 1771
- Tristhiolato**
Multi-functional ligand, (Arene)ruthenium, Mercaptophenol, 543
- Tritopic hydrazide ligands**
Trinuclear complexes, Structural property, Magnetic property, 1271

- Trpn
Abpt, Monoclinic, Crystal, Octahedral geometry, Intramolecular hydrogen bonding, 3181
- Tungsten
Alkoxide complexes, Phenolate ligands, Crystal structures, 2755
- Tungsten alkylidyne
Molybdenum alkylidyne, Electronic structure, Frontier molecular orbitals, Alkoxide, Thiolate, 145
- Tungsten clusters
Molybdenum clusters, Methoxo complexes, X-ray crystal structures, 1553
- Two-dimensional Heisenberg antiferromagnet
Tetrabromocuprates, Magnetic susceptibility, Ab initio, 2235
- Two-electron reduction
Single-molecule magnets, Magnetization, Crystallization, 1777
- Unsymmetrical
Phthalocyanine, Substituted, Trimeric, Metal complex, s-Triazine, 819
- Uranium
Lanthanides, Triphenylphosphine oxide, Iodide, Triflate, X-ray crystal structure, 3475
- Uranyl
Dimalonate[C₆₀]fullerene protonation, Complexes, Stability constants, 1085
- Uranyl ion
Calixarenes, Homooxacalixarenes, Clusters, Crystal structures, 3499
- Uranyl ions
Schiff bases, Heteropolymetallic complexes, Crystal structures, 2683
- Urea
Anion binding, Electrochemical sensing, 649
- UV–Vis absorption
Oligoarylamines, Coupling reactions, Electrochemical methods, Charged high-spin systems, Organic mixed-valence system, 2003
- UV–Vis and IR spectra
Cis and *trans* Co(II) isomers, Bidentate ligand, Crystal structure, 1329
- UV–Vis spectroscopy
Niobium diphthalocyanine, Niobium(V) complexes, Crystal structures, ‘Stapled’ sandwich-type diphthalocyanine, Raman spectroscopy, 313
- UV–Vis spectroscopy
Dipyridinated manganese(II) phthalocyanine, Crystal structures, Magnetic properties, Antiferromagnetic interactions, Oxidation, 2689
- Valence tautomerism
Cobalt, Magnetic moment, Charge-transfer band, 2401
- Vanadium
Decafluorodiphenylamido, Titanium, Zirconium, Iron, Cobalt, 153
- Vanadium
Complexes, Schiff bases, 1009
- Vanadium oxo clusters
Solid-state, X-ray structures, 2D coordination networks, 3037
- Variable-temperature NMR spectroscopy
Titanium, Cyclopentadienyl ligands, Intramolecular coordination, O ligands, P ligands, 2885
- Verdazyl
DFT calculation, Copper, Singlet–triplet separation, 2241
- Verdazyl radical
Spin-Peierls transition, Heat capacity, Magnetism, Doping effect, Antiferromagnetic order, High-field magnetization, 2091
- Vertex labelling
Carborane, Isomerisation, Synthesis, Spectroscopy, Crystallographic study, 1293
- Very-low-temperature time-dependent specific heat
Single-molecule magnets, Mn₄, Spin-lattice relaxation, Quantum tunneling of the magnetic moment, Magnetic order, 2169
- Vibration spectra
Crystal structures, Lanthanides, Rare earths, 271
- Vibrational frequencies
Ab-initio methods, Cyclic phosphazines, Electron propagator methods, Electronic structures, Ionization energies, 473
- VO(IV) complexes
Picolinic acid derivatives, Insulin-mimics, X-ray crystallography, Speciations, 27
- Volatility
Copper(II) complexes, Dialkyldithiocarbamate ligands, Chemical vapor deposition, Crystal structures, Thermal studies, 1575
- ¹⁸³W and ¹⁷O NMR shifts
Polyoxotungstate, EHMO calculations, 1183
- Weak ferromagnet
Phosphonates, *Octadecyl*, Nickel(II) ion, Layered compounds, Magnetic properties, 2463
- Weak ferromagnetism
Molecular conductor, Molecular magnet, π–d interaction, Magnetoresistance, Magnetic anisotropy, 2227
- Weak-ferromagnetism
Ferrimagnet, Molecular based magnet, Transition metal complex, Crown thioether, Benzene dithiolate, 1755
- X-ray
Copper, Silver, Ruthenium, 2,2'-Bipyridine, Metallostar, 93
- X-ray
Ironglucose, 2,2':6',2'-terpyridine, sugar, 687
- X-ray
Ni dithiolenes, Se-donors, Raman, Electrochemistry, 2175
- X-ray
Antiferromagnetic interaction, Alkoxide, Late transition metal, Molecular structure, 2581
- X-ray crystal structure
Oxomolybdenum(IV) complexes, Thiocarbodihydrazone and diacetylhydrazones ligands, Oxotransfer property, 3075
- X-ray crystal structure
Thiosemicarbazone, Copper(II), Electronic spectra, IR spectra, EPR, 3321
- X-ray crystal structure
Uranium, Lanthanides, Triphenylphosphine oxide, Iodide, Triflate, 3475
- X-ray crystal structure
Organotin compounds, Aryltin compounds, FT-IR spectroscopy, NMR spectroscopy, 3523
- X-ray crystal structures
Iron(III) complexes, Synthesis, Pyrazolylthiosemicarbazone, 375
- X-ray crystal structures
Ruthenium(II) complexes, NS-donors, Thiosemicarbazones, Biological activity, 447
- X-ray crystal structures
Hydrogen bonding, Crystal engineering, Zinc, Carboxylates, 673
- X-ray crystal structures
Hydrogen bonded coordination complexes, Lanthanide(III) complexes, *N,N'*-dimethylurea metal complexes, Spectroscopic characterisation, 825
- X-ray crystal structures
Cobalt acetate, Oxo-centred trimers, Ancillary ligands, 947
- X-ray crystal structures
Praseodymium, Neodymium, 2,2':6',2'-Terpyridine, 1,10-Phenanthroline, 1489
- X-ray crystal structures
Molybdenum clusters, Tungsten clusters, Methoxo complexes, 1553
- X-ray crystal structures
Tetrahydrofulvenes, Metal bis-dithiolene complexes, Magnetism, Electrical conductivity, 2415
- X-ray crystal structures
Fe-Bisdithiolene complexes, Magnetic susceptibility, Mössbauer spectroscopy, 2481
- X-ray crystal structures
Ruthenium(II) carbonyl complexes, Phosphine–phosphinesulfide, Bidentate chelating ligand, Octahedral structures, Steric effect, 2725
- X-ray crystal structures
Cobalt(III) isomers, C–H···π Interaction, 2D NMR, Energy minimisation, 3467
- X-ray crystallography
VO(IV) complexes, Picolinic acid derivatives, Insulin-mimics, Speciations, 27
- X-ray crystallography
Pyridine, Metal amide, Silyamide, 67
- X-ray crystallography
Europium complex, Photophysical property, 1,10-Phenanthroline, Succinamic acid, 323

- X-ray crystallography**
 Cobalt(III) complexes, Nickel(II) complexes, Synthesis, Spectroscopy, Thiosemicarbazone, 383
- X-ray crystallography**
 Asymmetrical tetradentate Schiff base, Copper(II), Cu(II) catalysed hydrolysis, 617
- X-ray crystallography**
 Ruthenium(II) complexes, Polypicolylamine ligands, Tricyanomethane anions, 875
- X-ray crystallography**
 Neodymium complexes, Hydrothermal synthesis, IR, TGA, Supramolecular structures, 981
- X-ray crystallography**
 Tricarbonylrhenium (I) complexes, Tetramethylaminomethane, Dimethylamine, 1321
- X-ray crystallography**
 Diphosphino ligands, Chalcogens, Pyridine, Tin(IV), 1585
- X-ray crystallography diffraction**
 2,5-Dimercapto-4-phenyl-1,3,4-thiodiazole, Organogermanium(IV), Non-bonded interaction, Crystal structures, 2767
- X-ray diffraction**
 Bis(2-pyridylthio)methane, Cadmium(II) complexes, Eight-membered chelate rings, Cadmium(II) halides, NMR spectroscopy, 1077
- X-ray diffraction**
 Tenoxicam, Meloxicam, Dimethylsulfoxide, 1355
- X-ray diffraction**
 Antimony, Bromine, Isobutyl group, Ring–ring equilibrium, NMR spectra, 1719
- X-ray diffraction**
 Neutron powder diffraction, Pyrazine, Quantum spin chain, Copper, 2045
- X-ray diffraction**
 Structural and magnetic properties, Chain polymers, Bridging ligands, 3025
- X-ray structure**
 Fluoride, Praseodymium, Neodymium, Titanium, 575
- X-ray structure**
 Supramolecular, Nickel(II), Guanidino-benzimidazole derivatives, 735
- X-ray structure**
 Napthylazoimidazole, H-bonding, Coordination compounds, Organomercuration, 1367
- X-ray structure**
 Yttrium, Lanthanides, Macroyclic Schiff base complexes, Template synthesis, 2773
- X-ray structure**
 Thiocarbonate complexes, Iron, Carbonyl, Sulfur-ligands, 3105
- X-ray structure**
 Imidazole-4-acetic acid, Cobalt(II) complexes, Manganese(II) complexes, Absorption spectra, EPR spectra, 3123
- X-ray structure**
 Arylazoimidazoles, Cadmium (II) complexes, Square grid, 3161
- X-ray structure analyses**
 Chiral-at-metal complexes, Configurational stability, Epimerization, Diastereomer equilibria, 861
- X-ray structure analyses**
 Chiral-at-metal complexes, Rhodium, Configurational stability, Epimerization, 2639
- X-ray structure analyses**
 Rhodium complexes, Cobalt complexes, Metal–metal bonds, Electronic structures, Cyclic voltammetry, 3413
- X-ray structure analysis**
 1,3-Diazaphenalenyl, 1,3-Diazaphenalene, Radical–metal complexes, 2215
- X-ray structure determination**
 Coordination chemistry, Schiff bases, Cd compounds, Hydrogen bonding, Reversible absorption and desorption of water, 3451
- X-ray structures**
 Deamination of amino acids, Diorganotin(IV) complexes, Pyridoxal 5'-phosphate, Pyridoxal–pyridoxamine Schiff base, Antibacterial activity, 53
- X-ray structures**
 Lanthanum, Alkoxides, Triflate, Grafting, 127
- X-ray structures**
 Octakis(2-pyridyloxy)cyclotetraphosphazene, Octakis(4-methyl-2-pyridyloxy)cyclotetraphosphazene, Inclusion compounds, 189
- X-ray structures**
 Stibine, Arsine, Synthesis, π -Stacking, Group 15, 211
- X-ray structures**
 Naphthylazoimidazoles, Copper(I) complexes, Electrochemistry, EHMO, 247
- X-ray structures**
 Osmium, Metallation, Methyl substituent, Trimethylthiazole, 355
- X-ray structures**
 Copper(II)–Schiff base complexes, *N*-Salcyclidene derivative, Ternary copper(II) complexes, Toxicity of copper(II) complexes, *Drosophila melanogaster*, 403
- X-ray structures**
 Phenylazoisoquinolin, Ruthenium(II) complexes, Isomers, 535
- X-ray structures**
 2-Thienyl derivatives, Arsenic, Antimony, $[PdCl_2\{(C_4H_3S)_3As\}_2]$, 549
- X-ray structures**
N-Alkylthiourea, Cadmium(II) complexes, Synthesis, 595
- X-ray structures**
 Dithiolate complexes, Ruthenium clusters, Protonation, 633
- X-ray structures**
 Cyclodiphosphazanes, Pentacoordinate, 843
- X-ray structures**
 Arylazoimidazoles, 1,10-Phenanthroline, Ruthenium(II) complexes, Electrochemistry, EHMO, 849
- X-ray structures**
 Nickel(II), Dithiophosphates, Syntheses, 1341
- X-ray structures**
 Gold(I) complexes, Thiourea, 1349
- X-ray structures**
 Dissymmetric Schiff base, Mixed donor set, Copper complexes, Cyclic voltammetry, 1437
- X-ray structures**
 Heteropolynuclear cobalt(III)–dysprosium(III) complexes, Oxalato-bridged complexes, Nitrolotriacetate complexes, Diffuse reflectance spectra, 1455
- X-ray structures**
 Salen ligands, Axial coordination cobalt(III) complexes, Circular dichroism spectra (CD), 1535
- X-ray structures**
 (Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropen-enitrile, Metal complexes, Silver(I), Antifungal, *Candida albicans*, 1595
- X-ray structures**
 Cobalt(III) complexes, Diethylenetriamine, Isobutlenediamine, 1603
- X-ray structures**
 Boron, Carbonyl complexes, Manganese, Octahydrotriborate(2-), Organophosphine ligands, Rhenium, 1627
- X-ray structures**
 Lanthanide picrates complexes, Solvent extraction, 1695
- X-ray structures**
 Rhenium, Nitrosyl, Oxo, Bipyridine, Electronic structures, 2573
- X-ray structures**
 Arylazoimidazoles, Cobalt(II) complexes, EO azido bridged complexes, 2587
- X-ray structures**
 Manganese, Suberato complexes, Coordination polymers, 2699
- X-ray structures**
 Nickel(II) xanthates, Trinuclear nickel-sulfur cluster, Nickel(II) dithiocarbonate complexes, Tetraphenyldiphosphinoethane, 2895
- X-ray structures**
 Solid-state, 2D coordination networks, Vanadium oxo clusters, 3037
- X-ray structures**
 Rhenium, Organodiazenido, Electronic structures, 3307
- X-ray structures**
 1,2-Bis(4-pyridinecarboxamido)ethane, Copper(II) complexes, Hydrogen bonding, Coordination polymers, Supramolecular isomers, 3493
- Xanthate**
 Cryptands, Polyether macrocycles, Methyl viologen, 795

- Ylide complexes**
Crystal structures, Mercury(II), Silver(I), 3345
- Ytterbium**
Synthesis, Crystal structures, Lanthanide, Samarium, β -Diketiminate ligand, 441
- Ytterbium**
Organolanthanide complex, β -Diketiminate ligand, Synthesis, Crystal structures, 1241
- Ytterbium**
Europium, MVS, Dissolution in ammonia, Aryloxides, 1425
- Yttrium**
Lanthanides, Macroyclic Schiff base complexes, Template synthesis, X-ray structure, 2773
- Zero-field splitting**
Antisymmetric double exchange, Mixed-valence clusters, 2253
- (Z)-3-(1*H*-imidazol-1-yl)-2-phenylpropenonitrile
Metal complexes, X-ray structures, Silver(I), Anti-fungal, *Candida albicans*, 1595
- Zinc**
Porphyrazines, Phthalocyanines, Magnesium, Copper, Electrochemistry, 3083
- Zinc complexes**
Syntheses, Crystal structures, Polynitrile ligands, Fluorescence, 493
- Zinc complexes**
Sulfonamide ligands, Electrochemical synthesis, Crystal structures, 1099
- Zinc complexes**
Dithiocarbimates, Crystal structure, NMR, IR-spectroscopy, 3355
- Zinc(II)**
Manganese(II), Nickel(II), Crystal structures, 2-Methyllactato complexes, Thermal analysis, 1051
- Zinc(II) and cadmium(II) complexes**
Di-2-pyridylketone Schiff base of *S*-benzylidithiocarbazate, Schiff bases, Dithiocarbazates, 1471
- Zinc(II) and cadmium(II) complexes**
Pentadentate sulfur–nitrogen ligand, 2,6-Diacetylpyridine Schiff base of *S*-benzyl-dithiocarbazate, 3433
- Zinc(II) complex**
2,2'-Bipyridine, Cadmium(II) complex, Double-helix, Isophthalate, Polymeric tubes, 1231
- Zinc(II) complexes**
Macrocycles, Five-coordinated, Diamine-bridged, Dinuclear complexes, Crystal structures, 529
- Zinc(II) complexes**
Arylazoimidazole, Crystal structures, Hydrogen bonding, 1D chain, 1213
- Zirconium**
Decafluorodiphenylamido, Titanium, Vanadium, Iron, Cobalt, 153
- Zirconium phosphonates**
Porphyrins, Thin films, Diffraction gratings, 3065
- Zn(II) complexes**
Co(II) complexes, Crystal structures, Multi-directional ligand, Polydentate pyridine ligand, N-donor ligand, 205
- Zn(II) complexes**
Purine, ^{15}N NMR, HETCOR, CPMAS, Coordination shift, 391
- Zn(II) porphyrins**
Tetratolylporphyrins, Tetranaphthylporphyrins, Octabromoporphyrins, Electronic properties, Fluorescence properties, Electrochemical studies, 3145
- ZnSe**
NMR, TGA, Structure, 489